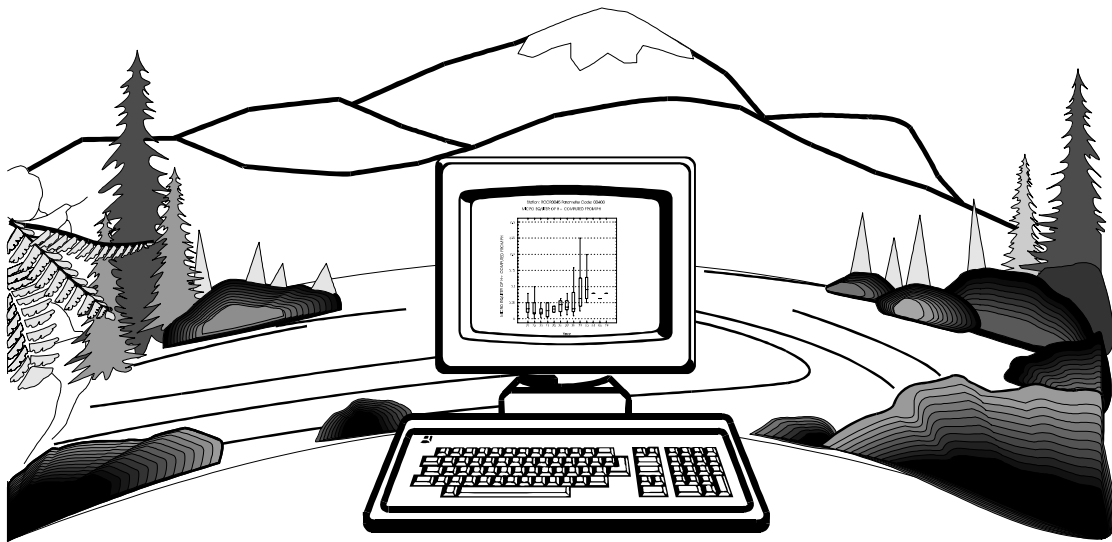
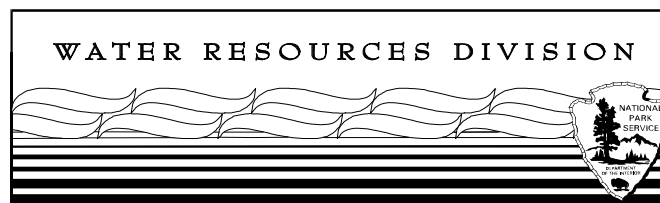

BASELINE WATER QUALITY DATA

INVENTORY AND ANALYSIS

Tuzigoot National Monument



WATER RESOURCES DIVISION AND SERVICEWIDE INVENTORY AND MONITORING PROGRAM



*National Park Service - Department of the Interior
Fort Collins - Denver - Washington*

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**BASELINE WATER QUALITY DATA
INVENTORY AND ANALYSIS
TUZIGOOT NATIONAL MONUMENT**

National Park Service
Water Resources Division
Fort Collins, CO 80525

Technical Report NPS/NRWRD/NRTR-99/223

OCTOBER 1999

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National Park Service
Washington, D.C.

EXECUTIVE SUMMARY

This document presents the results of surface-water-quality data retrievals for Tuzigoot National Monument (TUZI) from six of the United States Environmental Protection Agency's (EPA) national databases: (1) Storage and Retrieval (STORET) water quality database management system; (2) River Reach File (RF3); (3) Industrial Facilities Discharge (IFD); (4) Drinking Water Supplies (DRINKS); (5) Water Gages (GAGES); and (6) Water Impoundments (DAMS). This document is one product resulting from a cooperative contractual endeavor between the National Park Service's (NPS) Servicewide Inventory and Monitoring Program, the National Park Service's Water Resources Division (WRD), and Horizon Systems Corporation to retrieve, format, and analyze surface water quality data for all units of the National Park System containing significant water resources. The primary goal of the project is to provide descriptive water quality information in a manner and format that is both consistent with the goals of the Servicewide Inventory and Monitoring Program and useable by park resource managers. The document provides: (1) a complete inventory of all retrieved water quality parameter data, water quality stations, and the entities responsible for the data collection; (2) descriptive statistics and appropriate graphical plots of water quality data characterizing period of record, annual, and seasonal central tendencies and trends; (3) a comparison of the park's water quality data to relevant EPA and WRD water quality screening criteria; and (4) an Inventory Data Evaluation and Analysis (IDEA) to determine what Servicewide Inventory and Monitoring Program "Level I" water quality parameters have been measured within the study area. Accompanying the report are disks containing digital copies of all data used in the report, as well as all components of the report (tables, figures, etc.).

The results of the retrievals for the study area from the IFD, DRINKS, GAGES, and DAMS databases located two industrial/municipal dischargers; no drinking water intakes; one active and one inactive U. S. Geologic Survey (USGS) stream gage; and no water impoundments. The results of the STORET retrieval for the study area yielded 19,593 observations for 490 separate parameters collected by the NPS, USGS, EPA, U. S. Forest Service, and Arizona Department of Environmental Quality at 115 monitoring stations from 1951 through 1996. Approximately 55 percent of the 19,593 observations within the study area were collected by the USGS from 1951 through 1996. Of the 115 monitoring stations, 20 stations were located within the park boundary (see Station Period of Record Tabulation). Four stations within the study area (none within the park boundary) were established but contained no data.

Most of the monitoring stations represent either one-time or intensive single-year sampling efforts by the collecting agencies. Eight stations within the study area (none within the park boundary) yielded longer-term records consisting of multiple observations for several important water quality parameters (see Station Period of Record Tabulation). The stations yielding the longest-term records within the study area, but outside of the park boundary, are: (1) Verde River near Clarkdale (TUZI 0098); (2) Bitter Creek above the bridge in Clarkdale (TUZI 0051); (3) Bitter Creek near the cement plant bridge (TUZI 0066); (4) Verde River below the Tuzigoot Bridge (TUZI 0036); and (5) Sycamore Creek at mouth (TUZI 0106)[†].

Screening criteria consisting of published EPA water-quality criteria and instantaneous concentration values selected by the WRD were used to identify potential water quality problems within the study area. While the criteria represent important threshold concentrations of pollutants, it is important to remember that criteria may have been exceeded due to any number of natural or anthropogenic factors, including errors in field, laboratory, and/or recording procedures. The reader is advised to read the Introduction for additional caveats in interpreting the exceeded criteria in this report. The results of the TUZI water quality criteria screen found 17 groups of parameters that exceeded the screening criteria at least once within the study area. Dissolved oxygen, pH, cadmium, copper, lead, mercury, selenium, silver, and zinc exceeded their respective EPA criteria for the protection of freshwater aquatic life. Fluoride, nitrite plus nitrate, sulfate, antimony, arsenic, cadmium, copper, lead, mercury, nickel, and zinc exceeded their respective EPA criteria for the protection of drinking water. Fecal

[†]Water quality station location descriptions are verbatim from STORET. Any misspellings and abbreviations in STORET are replicated in this document.

indicator bacteria concentrations (fecal coliform) and turbidity exceeded the WRD screening limits for freshwater bathing and aquatic life, respectively.

Dissolved oxygen concentrations were measured 371 times at 35 monitoring stations from 1973 through 1996. Five concentrations at four stream stations, in the Verde River (TUZI 0046, TUZI 0097, TUZI 0098) and a seepage near the Clarkdale Elks Lodge (TUZI 0043), were less than the 4 milligrams per liter (mg/L) EPA criterion for the protection of freshwater aquatic life from 1973 through 1988.

The pH was measured 658 times at 58 monitoring stations from 1958 through 1996. Twenty-two observations at six stations, in Bitter Creek (TUZI 0065, TUZI 0066, TUZI 0070) and the Verde River (TUZI 0046, TUZI 0097, TUZI 0100), were outside the pH range of 6.5 to 9.0 standard units (SU) (EPA chronic criteria for freshwater aquatic life) from 1974 through 1980. All of these 22 observations were less than or equal to pH 6.5. Sixteen of these 22 observations were reported in Bitter Creek near the cement plant bridge (TUZI 0066) during 1980, including the lowest pH of 2.0 SU in March 1980.

Turbidity was measured 374 times at 28 monitoring stations from 1973 through 1996. Forty-nine concentrations at 13 monitoring stations equaled or exceeded the WRD screening criterion of 50 Jackson Candle/Formazin/Nephelometric Turbidity Units (JTU/FTU/NTU) from 1973 through 1993. Thirty of the observations exceeding the criterion were reported from nine monitoring stations in the Verde River (TUZI 0009, TUZI 0036, TUZI 0046, TUZI 0068, TUZI 0071, TUZI 0096, TUZI 0098, TUZI 0100, TUZI 0102) from 1973 through 1993, including the highest concentration of 1,190 NTU below Sycamore Creek near Clarkdale (TUZI 0096) in July 1990.

Fecal coliform concentrations were measured 291 times at 19 monitoring stations from 1973 through 1995. Twenty-four concentrations at six stations in the Verde River (TUZI 0010, TUZI 0011, TUZI 0012, TUZI 0018, TUZI 0036, TUZI 0098) equaled or exceeded the WRD bathing water screening criterion of 200 Colony Forming Units/Most Probable Number per 100 milliliters (CFU/MPN/100 ml) from 1973 through 1993. The highest concentration of 8,000 CFU/100 ml was reported in the Verde River near Clarkdale (TUZI 0098) in August 1991.

Fluoride concentrations (including dissolved and total) were measured 282 times at 50 monitoring stations from 1951 through 1996. One total concentration of 18 mg/L in the Verde River above Bitter Creek (TUZI 0071) exceeded the drinking water criterion of 4 mg/L in March 1980.

Nitrite plus nitrate concentrations (including dissolved and total) were measured 347 times at 31 monitoring stations from 1976 through 1996. One total concentration of 22 mg/L in the Verde River below the Tuzigoot Bridge (TUZI 0036) exceeded the drinking water criterion of 10 mg/L in July 1980.

Sulfate concentrations (including dissolved and total) were measured 422 times at 59 monitoring stations from 1951 through 1996. Fifty-six total concentrations at 14 monitoring stations exceeded the drinking water criterion of 250 mg/L from 1958 through 1993. Thirty-three of the observations exceeding the criterion were reported from five stations in Bitter Creek (TUZI 0051, TUZI 0065, TUZI 0066, TUZI 0069, TUZI 0070) from 1973 through 1993. The highest concentration was reported within TUZI at a seep on the left bank of the Verde River (TUZI 0029) in December 1988.

Antimony concentrations (including dissolved and total) were measured 102 times at 16 monitoring stations from 1987 through 1996. Of the 101 observations used in the criteria analysis (see EPA Water Quality Criteria Analysis for Station in the Interpretive Guide To Water Quality Results for explanation), two total concentrations, 6 micrograms per liter ($\mu\text{g/L}$) and 7 $\mu\text{g/L}$ in the Verde River near Clarkdale (TUZI 0098), equaled or exceeded the drinking water criterion of 6 $\mu\text{g/L}$ in December 1992 and July 1996, respectively.

Arsenic concentrations (including dissolved, total, and total inorganic) were measured 457 times at 58 monitoring stations from 1973 through 1996. Seven concentrations, ranging from 69 $\mu\text{g/L}$ to 150 $\mu\text{g/L}$ at six monitoring stations, in Pecks Lake (TUZI 0079, TUZI 0082), two springs southwest of the park (TUZI 0001, TUZI 0007), within the park in the northern area of Tavasci Marsh (TUZI 0076), and a spring near Sycamore Creek (TUZI

0110), exceeded the drinking water criterion of 50 µg/L from 1978 through 1993. The highest concentration of 150 µg/L was reported southwest of the park at Walnut Springs in Hull Canyon (TUZI 0007) in July 1978.

Cadmium concentrations (including dissolved, suspended, and total) were measured 509 times at 52 monitoring stations from 1973 through 1996. Of the 399 observations used in the criteria analysis (see Remark Code Screen in the Methodology and EPA Water Quality Criteria Analysis for Station in the Interpretive Guide To Water Quality Results for explanation), 35 observations at five stations, in Bitter Creek (TUZI 0066, TUZI 0070) and the Verde River (TUZI 0012, TUZI 0068, TUZI 0098), exceeded the acute freshwater criterion of 3.9 µg/L from 1978 through 1987. Thirty-four of these 35 observations also equaled or exceeded the drinking water criterion of 5 µg/L from 1978 through 1987. Approximately 64 percent of the observations exceeding the criteria were reported in Bitter Creek near the cement plant bridge (TUZI 0066) during 1980, including the highest concentration of 660 µg/L in September 1980.

Copper concentrations (including dissolved and total) were measured 499 times at 55 monitoring stations from 1973 through 1996. Of the 494 observations used in the criteria analysis (see Remark Code Screen in the Methodology and EPA Water Quality Criteria Analysis for Station in the Interpretive Guide To Water Quality Results for explanation), 77 observations at 15 monitoring stations exceeded the acute freshwater criterion of 18 µg/L from 1977 through 1993. Twenty-eight of these 77 concentrations also exceeded the drinking water criterion of 1,300 µg/L from 1979 through 1991. Approximately 66 percent of the observations exceeding the criteria were reported at four stations in Bitter Creek (TUZI 0051, TUZI 0065, TUZI 0066, TUZI 0070) from 1979 through 1992, including the highest concentration of 32,500 µg/L near the cement plant bridge (TUZI 0066) in March 1980.

Lead concentrations (including dissolved, suspended, and total) were measured 467 times at 47 monitoring stations from 1973 through 1996. Of the 439 observations used in the criteria analysis (see Remark Code Screen in the Methodology and EPA Water Quality Criteria Analysis for Station in the Interpretive Guide To Water Quality Results for explanation), 33 concentrations at six stations, in the Verde River (TUZI 0011, TUZI 0068, TUZI 0096, TUZI 0098) and Bitter Creek (TUZI 0051, TUZI 0066), exceeded the drinking water criterion of 15 µg/L from 1978 through 1993. Four of these 33 concentrations also exceeded the acute freshwater criterion of 82 µg/L during 1979 and 1991. Approximately 54 percent of the observations exceeding the criteria were reported at four stations in the Verde River (TUZI 0011, TUZI 0068, TUZI 0096, TUZI 0098) from 1978 through 1993. The highest concentration of 260 µg/L was reported in Biter Creek above the bridge in Clarkdale (TUZI 0051) in November 1991.

Mercury concentrations (including dissolved and total) were measured 350 times at 51 monitoring stations from 1973 through 1996. Of the 344 observations used in the criteria analysis (see EPA Water Quality Criteria Analysis for Station in the Interpretive Guide To Water Quality Results for explanation), one dissolved concentration of 5.9 µg/L in Bitter Creek above the bridge in Clarkdale (TUZI 0051) exceeded the drinking water criterion of 2 µg/L and the acute freshwater criterion of 2.4 µg/L in July 1991.

Nickel concentrations (including dissolved and total) were measured 110 times at 22 monitoring stations from 1987 through 1996. Of the 109 observations used in the criteria analysis (see Remark Code Screen in the Methodology for explanation), three concentrations, ranging from 170 µg/L to 1,090 µg/L at two stations, in Bitter Creek above the bridge in Clarkdale (TUZI 0051) and the Verde River just downstream of the park (TUZI 0023), exceeded the drinking water criterion of 100 µg/L during 1988 and 1991. The highest concentration of 1,090 µg/L was reported in the Verde River just downstream of the park (TUZI 0023) in December 1988.

Selenium concentrations (including dissolved and total) were measured 436 times at 39 monitoring stations from 1973 through 1996. Of the 429 observations used in the criteria analysis (see Remark Code Screen in the Methodology for explanation), one total concentration of 28 µg/L in Bitter Creek above the bridge in Clarkdale (TUZI 0051) exceeded the acute freshwater criterion of 20 µg/L in March 1989.

Silver concentrations (including dissolved and total) were measured 266 times at 44 monitoring stations from 1973 through 1996. Of the 263 observations used in the criteria analysis (see Remark Code Screen in the Methodology

for explanation), four concentrations, ranging from 5 µg/L to 10 µg/L at three monitoring stations, in the Verde River (TUZI 0036, TUZI 0098) and Bitter Creek near the cement plant bridge (TUZI 0066), exceeded the acute freshwater criterion of 4.1 µg/L from 1976 through 1989. The highest concentration of 10 µg/L was reported in the Verde River below the Tuzigoot Bridge (TUZI 0036) in September 1976.

Zinc concentrations (including dissolved and total) were measured 489 times at 52 monitoring stations from 1973 through 1996. Of the 473 observations used in the criteria analysis (see Remark Code Screen in the Methodology for explanation), 113 observations at 18 monitoring stations equaled or exceeded the acute freshwater criterion of 120 µg/L from 1973 through 1993. Thirty-three of these 113 observations also exceeded the drinking water criterion of 5,000 µg/L during 1979 and 1980. Approximately 62 percent of the observations exceeding the criteria were reported at five stations in Bitter Creek (TUZI 0051, TUZI 0061, TUZI 0065, TUZI 0066, TUZI 0070) from 1979 through 1993, including the highest concentration of 540,000 µg/L, reported twice near the cement plant bridge (TUZI 0066) in September 1980.

The IDEA conducted for TUZI indicates that STORET data exist for 12 of the 13 Level I parameter groups in the study area. No STORET data exist for the parameter group Chlorophyll. For all 12 parameter groups with data (Alkalinity, pH, Conductivity, Dissolved Oxygen, Water Temperature, Flow, Clarity/Turbidity, Nitrate/Nitrogen, Phosphate/Phosphorus, Sulfates/Total Dissolved Solids/Hardness, Bacteria, and Toxic Elements), at least 33 percent of the observations were recorded since 1985. Overall, approximately 50 percent of the observations for Level I parameter groups were recorded since 1985. Data for six groups (Dissolved Oxygen, Flow, Clarity/Turbidity, Nitrate/Nitrogen, Phosphate/Phosphorus, and Bacteria), were recorded at less than half of the 111 monitoring stations with data. Relative to other parameter groups with data, data were limited for the group Flow. Results for 85 of the 126 EPA priority toxic pollutants (consisting of inorganic and organic parameters, metals, pesticides, and PCB's) were retrieved from STORET.

Surface water resources in the TUZI study area include the Verde River; Sycamore, Bitter, Blow Out, and numerous other perennial and intermittent creeks; Pecks Lake; Tavasci March; McDaniel, Packard Trail, Rogers, and other tanks; many tailings and settling ponds; and Shea, Pecks, Thatch Hut, Quail, and numerous other springs and seeps. Based on the data inventories and analyses contained in this report, surface water quality within the study area appears to have been impacted by human activities. Potential anthropogenic sources of contaminants include mining and quarrying operations; livestock grazing and other agricultural activities; municipal and industrial wastewater discharges; urban and residential development; storm water runoff; recreational use; and atmospheric deposition.

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INTRODUCTION

The National Park Service's (NPS) Organic Act of 1916 states that the mission of the NPS is to promote and regulate the use of national parks, monuments, and other units "... to conserve the scenery and the natural and historic objects and wildlife therein and to provide for the enjoyment of the same in such a manner and by such means as will leave them unimpaired for the enjoyment of future generations." One task embodied by this mission is preserving and protecting water resources and water dependent environments in parks. Ensuring the integrity of park water quality, due to its importance in sustaining natural, aquatic park ecosystems and supporting human consumptive and recreational use, is fundamental to successfully addressing this task. The first step in ensuring the integrity of park water quality is defining historic and extant water quality.

This document represents one product of an ongoing effort by the NPS Water Resources Division (WRD) and the Servicewide Inventory and Monitoring Program to characterize baseline water quality using existing data at park units containing significant natural resources. This effort was initiated in 1993 by the award of a contract to Horizon Systems Corporation to retrieve, format, and analyze surface water quality data from the Environmental Protection Agency's (EPA) Storage and Retrieval (STORET) database system. The scope of work identified in the Request For Proposals outlined several sequential, interrelated project phases, including, but not limited to: (1) determining the water quality retrieval/query area around each park; (2) downloading and assessing the quality of the data from STORET; (3) generating basic water quality summary statistics and graphic plots; (4) reformatting water quality data for compatibility with the park-based Water Quality Data Management System presently under-development; and (5) providing recommendations concerning possible hardware, software, and personnel options for storing combined park databases in a centralized NPS water quality database. This report documents the results of phases one through four of this effort for this park unit.

Goal

The goal of this document is to provide descriptive water quality information in a format usable for park planning purposes (eg. Water Resources Management Plans, Resource Management Plans, and General Management Plans). The report is designed to characterize baseline water quality rather than assess specific water quality problems at a park. This is consistent with the Servicewide Inventory and Monitoring Program's goal of obtaining basic, "Level I", water quality parameters for key waterbodies at each park (National Park Service 1993). Consequently, this report is best used as a reference document to help design new goal-driven water quality monitoring programs rather than as conclusive evidence of previous or existing water quality problems.

Purpose

The purpose of this report is to inventory existing park water quality data; establish baseline water quality at the park; identify potential water quality problems; and establish a park water quality database. This report is intended to enable park resource managers to compare and contrast water quality data collected as part of ongoing inventory and monitoring programs with historical water quality trends. Additionally, this report is intended to foster better designed park-based water quality inventory and monitoring programs in the future. The water quality databases which accompany this report will also lay the groundwork for establishing a NPS water quality database that will allow Regions and Washington Offices to generate regional and national assessments of park water quality.

Objectives

Specific objectives of the study documented in this report are to:

1. Retrieve water quality and related data from the EPA's STORET and other database systems;
2. Develop a complete inventory of all retrieved data;

3. Produce descriptive statistics and appropriate time series and box-and-whiskers plots of water quality data to characterize period of record, annual, and seasonal central tendencies and trends;
4. Compare water quality data with relevant national EPA water quality criteria on a station-by-station and study area basis;
5. Determine the presence and/or absence of the Servicewide Inventory and Monitoring Program's "Level I" water quality parameters within the study area; and
6. Reformat water quality and other related data for use in the park-based Water Quality Data Management System, presently under-development, and other appropriate analytical tools.

Document Overview

This report is comprised of five chapters. The first chapter, this Introduction, provides a brief statement of the study's background; goal, purpose, and objectives; and the key personnel who helped produce the document. This chapter also contains this brief overview of the document's contents and important interpretive caveats to consider when referring to and using this document. The second chapter focuses on the methods, procedures, and databases that were employed to retrieve and analyze water quality data for the park. The third chapter is the user's interpretive guide to chapter four. Chapter three explains how to interpret all the tables and figures presented in chapter four. Chapter four, which likely comprises the majority of the document (unless there isn't much water quality data for the park), contains detailed inventories, descriptive statistics, graphics, and national EPA water quality criteria comparisons characterizing the park unit's water quality data on a station-by-station basis and over the entire study area. This chapter also contains a comparison of park water quality data with the Servicewide Inventory and Monitoring Program's "Level I" water quality inventory parameters and a listing of water quality observations that were outside the STORET edit criteria range. Chapter five, the Appendices, contains more specialized materials such as the file names and database structures included on floppy disk(s) with this report; STORET edit criteria; national EPA water quality criteria; Servicewide Inventory and Monitoring Program's "Level I" water quality inventory parameters; selected water quality references; and other materials which provide background on the methods, procedures, and databases used or produced by this study.

The water quality and other related data referenced in this report accompany the document on floppy disk. The water quality parameter data file is in DBASE III+¹ format and will be useable in the park-based Water Quality Data Management System presently under-development. The water quality stations, industrial facilities discharges, drinking water intakes, water gages, water impoundments, and River Reach databases are also in DBASE III+ and/or ASCII format for ready-use in Geographic Information Systems (GIS), Computer-Aided Design Systems, or Desktop Mapping Systems.

Caveats

While intended primarily as a reference document, it is important that users peruse the first three chapters and Appendices of this report to better understand and interpret the results presented in chapter four. As a means for identifying potential areas for more intensive study, comparisons of the park's water quality data with relevant national EPA water quality criteria for appropriate designated uses² and with the Servicewide Inventory and

¹The use and/or mention of specific proprietary hardware or software packages is for informational purposes only and is not intended to connote or denote an endorsement.

²The Environmental Protection Agency's Quality Criteria for Water 1995 Final Draft (Silver Book) was the primary source of water quality criteria. In the spirit of the other caveats offered in this section, it is important to recognize that water quality criteria are often revised when new or better information become available.

Monitoring Program's "Level I" water quality inventory parameters have been made. Extreme caution must be exercised in interpreting the results of these comparisons. Observations that exceed water quality criteria may have occurred due to any number of natural or anthropogenic factors, as well as other reasons. For example, STORET is a "user-beware" water quality database system. While there is some rudimentary edit (bounds) checking of any data entered in STORET (See Appendix C), users are basically free to enter their own data. Beyond data entry errors, the possibility of inaccurate data entering the system due to inappropriate measurement techniques, sample mistreatment, and other reasons is a serious concern. Consequently, if observations for a particular parameter frequently exceed the EPA water quality criterion over a prolonged time period, the best approach is to examine in detail the data exceeding the criterion. Questions which should be asked regarding the data include: What water source(s) are manifesting the problem? Does the data make sense? Was it collected by a reputable organization following a sound study plan and employing accepted techniques? If the answers to these questions still cause concern, a specific cause and effect water quality investigation focusing on the parameters of concern may be warranted. Similarly, the absence of particular Servicewide Inventory and Monitoring Program "Level I" water quality parameters from the park only means that no entity or organization has collected and entered this data into the EPA's STORET database. Too frequently, data that are collected in and around NPS units never make it into the EPA's national water quality database. These data may exist in published or unpublished reports, file cabinets, or other databases. Before definitively concluding that no baseline data exist for a particular parameter, these alternative resting grounds for data should be investigated. Such a detailed exploration, however, was beyond the scope of this study.

Key Personnel

Many individuals contributed to the design and implementation of this project. The primary contributors and their roles in the project are briefly mentioned below.

National Park Service, Water Resources Division:

Dean Tucker was the Contracting Officer's Technical Representative responsible for designing, coordinating, and implementing all aspects of this effort.

Mike Matz coordinated and managed the team which prepared all components of the report.

Gary Rosenlieb provided administrative oversight and was involved in quality control for all tasks related to this project.

Barry Long and Roy Irwin reviewed technical tasks and provided water quality expertise related to data analysis.

Gary Smillie provided hydrologic expertise in the determination of hydrologic seasons.

Greg Harp, Clint Bassett, and Amy Benton helped prepare reports and write the Executive Summaries.

Elizabeth Eisenhauer, Bill Folsom, Dana Griffin, Scott Ratchford, Jeff Ketcham, and Valdete Celaj provided digital cartographic support, both in determining retrieval/query areas and producing maps and graphics.

Kelli O'Connor, J. Chris Echohawk, Curtis Cooper, Adam Henson, Shawndra Mawhorter, Lisa Smith, Ryan Shy, Lisa Dummer, Eric Lord, Adriane Petersen, Margaret Matter, Richard Henderson, Ronda Burns, Aria Brissette, Nancy O'Keefe, Melanie Schnier, Brett Atkinson, Paul Sorek, and Cara Ellis uploaded water quality data to STORET prior to report preparation.

Jacque Nolan designed the cover.

Horizon Systems:

Cindy McKay served as Project Manager for Horizon Systems, performed the initial requirements analysis, and was involved in all quality control tasks related to the project.

Alan Cahoon was responsible for automating the procedures which produced the water quality databases and Water Quality Results chapter.

Sue Hanson, P.E., provided technical advice for writing this document.

Dr. Jim Loftis was the data quality analyst for the project.

Armando F. Ballofet, P.E., served as the local technical liaison between Horizon Systems and the NPS.

Other National Park Service:

Several other individuals provided invaluable technical review, comments, administrative support, and/or other assistance, including: Dan Kimball, Bill Jackson, Mark Flora, Gary Williams, John Karish, Brendhan Zubricki, Richard Hammerschlag, Randy Ferrin, Gary Vequist, Mike Martin, Kevin Berghoff, and Dyra Monroe.

METHODOLOGY

This section provides an overview of the procedures and criteria used to retrieve and analyze water quality data for each park unit. Generating baseline water quality data inventories and analyses for all NPS units is a monumental task. To accomplish this undertaking given a very limited budget, the procedures employed to produce each report had to be as generic and automated as possible. Consequently, customization of reports to individual park needs and issues was not feasible. Moreover, such customization was beyond the scope of this effort which was simply intended to produce baseline water quality data inventories for all parks rather than customized issue-driven reports. During the procedure-development stages of the project, specifications for the final product evolved, within the context of the aforementioned resource constraints, to focus on comprehensive water quality baseline data inventories and concise, descriptive statistical examinations of the available water quality data for each park unit. Detailed below are the data sources and final methods and procedures that were used to create the baseline water quality inventories, analyses, databases, and other products for each park unit. A thorough understanding of the limitations of the data sources and procedures described in this chapter and the next (Interpretive Guide to Water Quality Results) is a prerequisite to intelligent use of the results presented in this document.

Delineation of Park Study Area

The first step in retrieving water resources-related data for each park was deciding on a procedure to determine the study area boundary. Since water flows through parks, utilizing the park boundary as a simple query/study area was deemed inadequate. On the other end of the continuum, using the entire watershed as the study area was considered superfluous given: (1) the areal extent of certain park watersheds (eg. the entire Mississippi River); (2) the sheer volume of potentially irrelevant data such a large study area could generate; and (3) the resources required to specify the watershed for each park unit. The approach which was ultimately adopted - a modified hydrologic boundary - reflects a compromise between the park boundary and the entire watershed. Thus the study area employed for each park is an area extending at least three miles upstream and one mile downstream from the park boundary. Although these distances are somewhat arbitrary, this approach is easy to automate and was felt to limit the data retrieved, in most instances, to that of most importance to the park. Extending the query area one mile downstream of the park was intended to capture any data immediately downstream of the park which may reflect the quality of the water in the park. A current (as possible) copy of each park's boundary was obtained in digital format directly from the park or digitized from Regional land status maps, U.S. Geological Survey (USGS) quadrangles, or other sources. Using GIS techniques, the boundary was used to create the three miles upstream, one mile downstream buffer. For a few parks with which WRD water quality specialists were very familiar with potential water quality threats and/or valuable sources of data that may lie just outside the study area, the study area may have been tweaked (enlarged) to cover these areas of concern or interest. Unfortunately, a customized study area was not feasible for all park units. Hence, the three miles upstream, one mile downstream buffer was the primary study area employed for most parks. This study area was transferred to the EPA mainframe computer and used as the basis for all water resources-related data retrievals from the data sources described below.

Data Sources

The EPA maintains many mainframe data systems related to national water resources (U.S. Environmental Protection Agency 1992). Six of these data systems were used for this project:

- STorage and RETrieval System (STORET) - water quality parameter data, locations of sampling stations, descriptive elements about stations and parameters;
- Industrial Facilities Discharge (IFD) - locations of industrial and municipal point source discharge facilities;

- Drinking Water Supplies (DRINKS) - locations of intake pipes for drinking water supplies;
- Water Gages (GAGES) - locations of USGS and other water gages;
- Water Impoundments (DAMS) - locations of most large water impoundments (greater than 10,000 acre feet at normal pool volume) and many smaller impoundments; and
- River Reach File, Version 3 (RF3) - 1:100,000 scale geographical representation of surface waters (rivers, lakes, etc.) with a unique identifier assigned to each surface water segment and connectivity information useful for routing and navigation.

STORET is the national water quality data repository (U.S. Environmental Protection Agency 1989). Water quality data is entered in STORET by public agencies (federal, state, or local) that collect water samples and/or perform laboratory analysis. As such, STORET is a "user-beware" data system. Although the EPA manages the STORET data system and, since November 1983, has imposed some minimum quality control criteria on the data (See Appendix C), data are generated and input to STORET by the "owner" agencies. Consequently, the EPA does not certify any data within STORET. Currently, there are over 800,000 active and inactive sampling stations and more than 225 million observations covering in excess of 13,000 water quality parameters entered in STORET. The earliest data dates back to the turn of the century. Using the bi-monthly update cycle, user agencies may store results of recent monitoring activities in STORET. Included in STORET is USGS WATSTORE water quality data, which is updated on a monthly basis. Although STORET contains a phenomenal amount of data, it is important to note that data exist in STORET only if the collectors decide to upload their data to the system. Since many agencies and researchers do not upload their data to STORET, the absence of water quality data in the system for a particular area doesn't mean that there has never been any water quality data collected for the area. The data may exist in published or unpublished reports, file cabinets, or in agency-specific databases. Identifying and retrieving these other sources of data were beyond the scope of the present effort. All parameter data and water quality station location data downloaded from STORET within the park's study area are included in DBASE III+ format files on disk(s) accompanying this report (See Appendices A and B).

The data within the IFD database are extracted from the EPA's Permit Compliance System (PCS). IFD contains the facility locations of all industrial and municipal dischargers which require a National Pollutant Discharge Elimination System (NPDES) permit to operate. Over 7,100 municipal, federal, and industrial facilities discharging into the waters of the United States are tracked by PCS and IFD. If any industrial facilities discharges exist within the study area, a file in DBASE III+ format documenting a variety of information about each discharge accompanies this report on disk (See Appendices A and B).

The EPA DRINKS database identifies locations of drinking water supply intakes. This file contains data for 850 supplies which serve more than 25,000 people, and 6,800 supplies which serve between 1,000 and 25,000 people. If any drinking water intakes exist within the study area, a file in DBASE III+ format documenting a variety of information about each intake accompanies this report on disk (See Appendices A and B).

The GAGES data originates primarily with the USGS and copies are maintained on the EPA mainframe computer for ease of integration with other EPA national data systems. Although other agency's water gages, as well as some artificial gages, may appear in GAGES, the vast majority of gages are stream gages belonging to the USGS. The GAGES database contains approximately 36,000 records for both active and inactive gaging stations. If any USGS or other agency stream gages occur within the study area, a file in DBASE III+ format documenting several fields of information about each gage accompanies this report on disk (See Appendices A and B).

The Water Impoundment database was originally compiled by the U.S. Army Corps of Engineers in response to a Congressional inquiry on dam safety hazards (GKY and Associates 1990). The EPA subsequently modified the database for use in water quality investigations. Of the 68,155 dams in the database, 2,125 are considered large (impounding 10,000 acre feet or more at normal pool volume). It is important to note that while the database includes entries for 66,030 smaller dams, estimates place the actual number of dams in the U.S. at several million

(including small farm ponds). If any water impoundments occur within the study area, a file in DBASE III+ format documenting several fields of information about each impoundment accompanies this report on disk (See Appendices A and B).

The RF3 data system is a hydrologic database of surface water features across the U.S. (excluding, at present, Idaho, Oregon and Washington, which currently operate a different system - although this data is expected to be converted to RF3 soon, Alaska and Hawaii). RF3 was created primarily from 1:100,000 scale USGS Digital Line Graph data. RF3 is made up of over 3,000,000 individual "reaches". A reach is generally defined as a portion of surface water between two confluences (U.S. Environmental Protection Agency 1993). The linework underlying RF3 contains over 95,000,000 coordinate points. RF3 is designed to facilitate hydrologic routing, identifying upstream and downstream elements, and specifying the exact location of any point on a stream network. RF3 data exists as a series of traces with associated attributes. The EPA project which is producing RF3 is being conducted in three phases: Compilation, Assessment, and Revision. The Compilation phase is complete except for Idaho, Washington, Oregon, and Alaska. The Assessment phase was completed during the first half of 1994; while the Revision phase was begun in March 1994. One important outcome of the Revision phase is that the reach codes which uniquely identify each surface water feature will change. Consequently, these codes should not be used, at this time, as keys for relating other data to RF3. The RF3 data provided with this document is provisional and should be used only to provide a geographic backdrop for the park's water quality data. RF3 data covering each USGS catalog unit (a geographic area representing a single or multiple drainage basin(s), or some other distinct hydrologic feature (U.S. Geological Survey 1982)) touched by the park's study area is included in ASCII export and DBASE III+ formats on the disk(s) accompanying this report (See Appendices A and B).

For additional information on any of these data systems, contact the EPA Office of Water at (202) 260-7028.

Data Retrieval and Analysis Procedures

The six EPA data systems discussed above reside on the EPA mainframe computer located in Research Triangle Park, N.C. Horizon Systems used a dedicated, leased telephone line with a data transfer rate of 9600 bits per second to download data occurring within the park's study area from all the databases. The bisynchronous communication software and hardware provided error checking during all data transfer procedures.

As described above, the park study/query area boundary was used to select the water quality stations, industrial facilities discharges, drinking water intakes, water gages, water impoundments, and river reaches associated with the park unit. For various reasons, screening criteria (described later in this section) were employed to select appropriate water quality stations, parameters, and observations. Horizon Systems wrote several mainframe programs to automate, to the greatest extent feasible, the STORET data retrieval and storage procedures. Once the data were extracted from the EPA data systems, they were downloaded to a microcomputer for statistical analyses and reformatted into DBASE III+ compatible format.

Specifically, once on the PC, the data were processed to:

- (1) Reformat the data into DBASE III+ format and other database structures;
- (2) Eliminate questionable data outside the STORET edit criteria ranges (See Appendix C);
- (3) Display on a map the location of water quality monitoring stations and other water resources themes;
- (4) Determine the frequency of water quality observations by station, parameter, and station/parameter;
- (5) Generate descriptive period-of-record water quality statistics in a tabular format;
- (6) Generate appropriate descriptive annual and seasonal analyses of the water quality data in a tabular format;
- (7) Plot appropriate period of record time series and annual and seasonal box-and-whisker graphs;
- (8) Compare the water quality data against relevant EPA national criteria; and

- (9) Compare the water quality data against the NPS Servicewide Inventory and Monitoring Program's "Level I" water quality parameters.

Special customized microcomputer programs (primarily written in Clipper and Microsoft Professional BASIC) and procedures were created to address each of these tasks. All reformatted database files are included on disk(s) accompanying this document. The contents of these databases are described briefly below. Complete database structures are included in Appendices A and B. The descriptive water quality tabular statistics (see "Statistical Analyses" below) were computed based upon NPS specifications. Command or batch files were generated to drive STATGRAPHICS 7.0 in order to produce all the time series and box-and-whiskers plots.

Park Unit Databases

Up to seven digital databases in DBASE III+ and other formats have been created for the park by querying the water resources-related data sources described above. The disk(s) containing these databases accompany the report. The contents of each of these databases are discussed briefly below. More detailed documentation of these databases is included in Appendices A and B.

- (A) Water Quality Parameter Data: This database includes all the water quality parameter data downloaded from STORET that passed the STORET Edit Criteria, Date, Station Type, and Phase 0 Parameter screens (described below) and is summarized tabularly and graphically in this document. This constitutes the park's baseline water quality data. Since it is already in digital format, more sophisticated analysis of the data is possible than the descriptive statistics and graphics presented here.
- (B) Water Quality Station Locations: This database consists of the STORET header information describing each station where water quality data was collected. As the latitude and longitude of the station are included in the database, this file is easily imported into the park's GIS.
- (C) Industrial Facility Discharge Locations: This database includes any industrial or municipal point source discharges located within the park's study area. As the latitude and longitude of each discharge facility are included in the database, this file is easily imported into the park's GIS.
- (D) Drinking Water Intake Locations: This database includes any drinking water intakes located within the park's study area. As the latitude and longitude of each intake are included in the database, this file is easily imported into the park's GIS.
- (E) Water Gage Locations: This database includes water (stream, lake, estuary, well, spring, climate, or other) gages located within the park's study area. Most of the gages will likely be stream gages belonging to the USGS. As the latitude and longitude of each gage are included in the database, this file is easily imported into the park's GIS.
- (F) Water Impoundment Locations: This database includes any water impoundments (dams) located within the park's study area. As the latitude and longitude of each impoundment are included in the database, this file is easily imported into the park's GIS.
- (G) River Reach Data: This database includes all stream traces (1:100,000 scale) and attributes for reaches falling within any USGS catalog unit that touches the park's study area. The traces are geo-referenced in ASCII format. The attributes are in both ASCII export and DBASE III+ formats. This information is also readily incorporated into the park's GIS.

The absence of any of these seven files from the disk(s) accompanying the report indicates that there was either no data of this type within the park's study area or the data was unavailable. Several other files are included on the disk(s) accompanying this report, including digital copies of all the figures and tables contained in the document and some other items. Refer to Appendices A and B for detailed documentation of these files. Not included on

disk is an Encyclopedia File (for WRD reference) that documents the minimum and maximum values for each water quality parameter and the parks in which those values were recorded. When Baseline Water Quality Data Inventory and Analysis reports have been completed for all parks, this Encyclopedia File will be available upon request from the NPS WRD.

Screening Methodologies and Procedures

Developing automated or semi-automated procedures to produce baseline water quality inventories and analyses for all national park units required constant testing and debugging of procedures. Three parks, Rock Creek Park, Yellowstone National Park, and Indiana Dunes National Lakeshore, were used to pilot test and refine the automated procedures. It became evident, after a preliminary analysis of all the downloaded STORET data, especially for Indiana Dunes National Lakeshore, that the specifications for the graphical analyses could generate hundreds (possibly thousands) of plots, many of which would not necessarily be useful. Also, there were many stations; parameters; and/or observations downloaded that were not part of the study's objectives; not overly useful; or of dubious quality. In order to reduce the number of graphical plots (time series, annual and seasonal box-and-whiskers) to fit within project resources, various screening criteria were investigated. Ultimately, a comprehensive set of screening criteria were developed to reduce the number of graphical plots. After initial counts of the total number of possible time series and annual and seasonal box-and-whiskers plots were generated, these counts were used to decide which screening criteria would be applied to limit the number of these plots produced for the park unit. Additional screening criteria were employed to restrict the tabular descriptive statistics results to only those deemed useful to the park. Table A provides the categories of screening criteria and to which analyses the screens were applied. A "yes" entry in the table means that the screening category eliminated or prevented data from appearing in certain tables and plots contained in the document. Consequently, in understanding how data from STORET was used in this report, it may be helpful to keep in mind the three general types of screening criteria: (1) screens that apply to stations; (2) screens that apply to certain parameters at stations; and/or (3) screens that apply only to particular observations of parameters at stations. A detailed description of each of the screening criteria categories follows this table. *It is important to note that statistics in "Inventory" reports may not be consistent with statistics in "Overview" reports since different categories of screening criteria were applied.* Also, if attempting to replicate the results of the statistical and graphical analyses presented in this document, be sure to follow the same screening methodologies.

STORET Edit Criteria

As mentioned previously, STORET is a "user-beware" data system. As the EPA doesn't certify any data in STORET, public agencies enter and are responsible for the quality of their own data. Only data entered since November 1983 have been subjected to any rudimentary edit/bounds checking. Agencies entering data since this date can elect to override the edit/bounds checking for individual observations. USGS WATSTORE water quality data is entered into STORET without any EPA edit/bounds checking to ensure data integrity between WATSTORE and STORET. Unfortunately, during the course of our pilot tests, erroneous USGS and EPA water quality data values were discovered. In order to eliminate as much "bad" data as possible, all water quality data downloaded from STORET was subjected to automatic edit/bounds checking (STORET Edit Criteria contained in Appendix C) for the 190 most common parameters. Observations falling outside the STORET Edit Criteria were documented (See the Water Quality Observations Outside STORET Edit Criteria for Park section in the Water Quality Results chapter) and then retained or discarded from the database and all tables and plots based on whether the value was judged as being in the realm of possibility. Although the STORET Edit Criteria screen likely removed some "bad" data for these common parameters, the probability of other erroneous data in the database is high. Be sure to consult the Caveat section in the Introduction.

Table A. Categories of Screening Criteria and to Which Output Products They Apply (A "yes" Entry Means the Screening Category Eliminated or Prevented Data From Being Used in the Product):							
Screening Category	Data Download	Overview Tables	Inventory Tables	Annual Tables	Seasonal Tables	Standards Tables	Plots (All)
STORET Edit Criteria	yes	yes	yes	yes	yes	yes	yes
Date	yes	yes	yes	yes	yes	yes	yes
Station Type	yes	yes	yes	yes	yes	yes	yes
Phase 0 Parameter	yes	yes	yes	yes	yes	yes	yes
Phase 1 Parameter	no	no	yes	yes	yes	yes	yes
Media Type	no	no	yes	yes	yes	yes	yes
Remark Codes	no	no	yes	yes	yes	yes	yes
Composite Type	no	no	yes	yes	yes	yes	yes
Phase 2 Parameter	no	no	no	no	no	no	yes
Observations/Period of Record	no	no	no	yes	yes	no	yes

Date Screen

Every water quality observation in STORET typically has a sampling date associated with it. Unfortunately, STORET does not prevent users from entering incorrect dates. Consequently, any water quality observation with an incorrect and/or suspect date (eg. a month greater than 12; a day greater than 31; or a sample date later than the STORET retrieval date) were discarded.

Station Type Screen

STORET contains data from a wide variety of stations classified by the type of waterbody in which samples were collected. As this project's purpose was to inventory and analyze surface-water quality, the following surface-water station types were retrieved (clarification provided in parentheses):

Station Types Included In Retrieval

- (a) STREAM
- (b) CANAL
- (c) LAKE
- (d) RESERV (Reservoir)
- (e) SPRING
- (f) FWTLND (Fresh Water Wetland)
- (g) SWTLND (Salt Water Wetland)
- (h) ESTURY (Estuary)
- (i) OCEAN

Ground water and/or other station type data may have been retrieved if the entering agency classified the station type incorrectly. Rectifying this error was beyond the scope and resources of this project.

Phase 0 Parameter Screen

Nearly all water quality parameters associated with each station type listed above were retrieved. The only exception to this was the exclusion of most of the STORET administrative parameters. A complete list of STORET administrative parameters is included in Appendix D. The few administrative parameters that were included in the retrievals are as follows:

<u>Code</u>	<u>STORET Administrative Parameter Description</u>
00027	Code No. for Agency Collecting Sample
00028	Code No. for Agency Analyzing Sample
00063	Sampling Points, Number of In a Cross Section
00111	Ratio of Fecal Coliform to Fecal Streptococci
00115	Sample Treatment Code (1=Raw, 2=Treated)
34772	NPDES Number, Cross Reference
45580	Method of Analysis
74065	Stream Flow Class
74066	Annual Runoff
74067	Soil Classification
74068	Water Quality Designated Use Classification

Phase 1 Parameter Screen

Some of the data retrieved from STORET was not suitable for statistical or graphical analysis. Consequently, this screening criterion eliminated all parameters which were not suitable for statistical or graphical analysis within the context of this project. The full list of these parameters is presented in Appendix E. Examples of parameters excluded from statistical and graphical analysis include the administrative parameters mentioned above, land use acreage, encoded values, dates, latitude/longitude, etc. Excluded parameters do, however, appear in the Parameter Period of Record and Station/Parameter Period of Record (two of the "Overview" Tables), as well as in the water quality parameter file included on disk(s) accompanying this report.

Media Type Screen

Water quality samples can be taken in a variety of aqueous media. Water quality data were retrieved from STORET only if the media were WATER or VERT (vertically integrated). WATER and VERT samples comprise the overwhelming majority of samples in STORET. The media screen eliminated the following water quality sampling media:

<u>Media Screen</u>	<u>Description</u>
BOTTOM	Sampled At the Bottom
DREDGE	Sampled By Dredge
PORE	Pore Sample
CORE	Core Sample

Remark Code Screen

STORET enables the agency collecting water quality samples to provide a qualifying remark for each parameter observation. These remarks provide additional information about the measured or observed value entered into STORET (See Appendix B - Parameter Data File for a complete listing and description of all remark codes). Based on the STORET remark codes, two potential screens were applied to water quality observations based on whether the measured value was used in subsequent analyses: (1) Elimination or (2) Modification/Inclusion.

Elimination:

Non-composite water quality parameters with the remark codes presented in Table B were eliminated from the period of record, annual, and seasonal descriptive statistics and graphics. Not including observations with these remarks was justified by the fact that most of the remarks: (A) indicate either less confidence in the measured value; (B) are remarks for nominal or categorical data that doesn't lend itself to statistical analysis; or, (C) complicate the statistical analysis beyond the scope of this effort. Observations containing these remark codes comprise a very small fraction of the data. Although statistical analyses weren't undertaken on this data, all water quality observations, regardless of remark code, are included on disk(s) accompanying this report. If you re-analyze this data in order to replicate the results presented here, be sure to eliminate all non-composite observations with the remark codes presented in Table B.

Table B. Non-composite Parameters With the Following Remark Codes Were Eliminated From Statistical and Graphical Analysis:	
Remark Code	Description of STORET Remark Code
F	Female Species.
J	Estimated, Not the Result of Analytic Measurement.
M	Presence Verified, But Not Quantified, Below Quantification Limit. For Species, Male. For Oxygen Reduction Potential, Indicates Negative Value.
N	Presumptive Evidence of Presence.
O	Analysis Lost.
V	Analyte Was Detected In Sample and Method Blank.
W	Less Than Lowest Value Reportable Under Remark "T".
Z	Too Many Colonies Were Present to Count (TNTC), Value Represents Filtration Value.

Modification/Inclusion:

Water quality parameter observations with the remark codes presented in Table C were halved prior to inclusion in period of record, annual, and seasonal descriptive statistics and graphics. These remark codes deal with observations that were below the detection limit for the parameter. The common water quality data analysis convention for these remark codes is to use half of the detection limit in statistical analyses (Ward, Loftis, and McBride 1990; Gilbert 1987). Although this is a somewhat defensible treatment of observations below the detection limit, the statistics that may be computed using these halved values may not be defensible. Consequently, any computed statistics in inventory, annual, or seasonal tables that are comprised of 50% or more K, T, and U remark codes are footnoted "Computed with 50% or more of the total observations as values that were half the detection limit." This will provide the user with some caution in using and interpreting these results. Water quality data included on disk(s) accompanying this report that may have these remark codes are stored as the original entry (detection limit). If you re-analyze this data in order to replicate the results presented here, be sure to substitute half the detection limit value in the database whenever these remark codes are encountered.

Table C. The Value of Water Quality Parameters With the Following Remark Codes Were Halved (Half of the Detection Limit Entered In STORET) Prior to Inclusion In Descriptive Statistics and Graphics:	
Remark Code	Description of STORET Remark Code
K	Off-scale Low, Actual Value Not Known, But Known to Be Less Than Value Shown.
T	Less Than Detection Criteria.
U	Analyzed For But Not Detected, Value is Detection Limit For Process Used. If Species, Undetermined.

Composite Type Screen

Sometimes data entered in STORET represent something other than a single measurement at one location at one point in time. These samples are typically referred to as composite samples due to the fact that they vary temporally and spatially. Consequently, the observation entered into STORET for composite data is typically a computed value that summarizes the data over time and/or space. Such data complicate statistical and graphical analyses and must be handled separately. Such treatment was beyond the scope of this study; although composite values typically represent only a fraction of STORET observations. The composite type screen eliminates all composite observations from statistical and graphical analyses, except those with a composite type code of "A" that have a one day or less sampling period and those with a composite type code "D". All water quality observations, regardless of composite type code, are included on disk(s) accompanying this report. If you re-analyze this data in order to replicate the results presented here, be sure to exclude all composite observations except those with a code of "A" that have a one day or less sampling period and those with a code of "D". Table D presents a list of possible STORET composite type codes.

Table D. Possible STORET Composite Type Codes	
Composite Type Code	STORET Composite Type Description
A	Average
H	Maximum
L	Minimum
N	Number of Observations
#	Number of Observations
S	Standard Deviation
U	Sum of Squares
V	Variance
C	Coefficient of Error
X	Coefficient of Variance
E	Skewness
F	Kurtosis
Z	Number of Obs. That Exceed An Established Limit
%	Precision
\$	Accuracy
B	N/A
D	Indicates Replicate Sample

Phase 2 Parameter Screen

Due to budgetary limitations, the number of graphical plots (time series, annual and seasonal box-and-whiskers) produced had to be manageable - typically no more than 100 total plots. After scrutinizing the results of the pilot tests and the Baseline Water Quality Data Inventory and Analysis Reports produced for the first group of parks, the 19 parameters which, typically, were the most frequently measured at nearly all stations were water temperature, stage, discharge, and various meteorological measurements (See Table E). Consequently, most of the graphical plots produced would be of water temperature, stage, discharge, and meteorological conditions. Although these are important parameters, particularly in conjunction with other water quality parameters, it was felt that plotting resources would be better allocated to other water quality parameters. Consequently the STORET parameter codes listed in Table E never generated graphical plots. It is important to note, however, that these parameters are included in all other aspects of the project, including all applicable period of record, annual, and seasonal descriptive statistics tables.

Table E. Frequently Measured STORET Codes That Were Prevented From Generating Plots	
STORET Parameter Code	STORET Parameter Description
00003	Sampling Station Location, Vertical (Feet)
00010	Water Temperature (Degrees Centigrade)
00020	Temperature, Air (Degrees Centigrade)
00021	Temperature, Air (Degrees Fahrenheit)
00025	Barometric Pressure (MM of HG)
00032	Cloud Cover (Percent)
00035	Wind Velocity (Miles Per Hour)
00036	Wind Direction in Degrees from Trun N (Clockwise)
00040	Wind Direction (Azimuth)
00045	Precipitation, Total (Inches Per Day)
00046	Precipitation, Total (Inches Per Week)
00052	Humidity, Relative (Percent)
00061	Stream Flow, Instantaneous (CFS)
00065	Stream Stage (Feet)
81903	Depth of Bottom of Water @ Sample Site (Feet)
82553	Rainfall In 1 Day Inclusive Prior to Sample (Inches)
82554	Rainfall In 7 Days Inclusive Prior to Sample (Inches)
82371	Rainfall In 3 Days Inclusive Prior to Sample (Inches)
82372	Rainfall In 14 Days Inclusive Prior to Sample (Inches)
85599	Precipitation, Total/Period-Rain Equivalent (Cm/Sample)

Observations/Period of Record Screen

Despite never plotting water temperature, stage, discharge, and meteorological measurements, the number of plots generated by some parks still exceeded the 100 plot limit. Also, some rationale was needed to plot only those parameters with sufficient data density to make a meaningful statistical graphic. For example, time series plots comprised of only a few observations or annual or seasonal box-and-whiskers plots with limited observations and/or data in only one or two years or seasons are not very informative. Consequently, a number of plotting criteria were developed to limit the number of time series and box-and-whiskers plots to, at most, 100 informative graphics by using each parameter's number of observations and period of record. Similar, albeit less stringent criteria, were used for including results of annual and seasonal analyses in descriptive statistics tables. Consequently, there are more summaries of annual and seasonal results in tables than in graphics. Whenever an entry in an annual or seasonal table generated a plot, this entry was footnoted to notify the reader of the presence of the graphic. Due to differing quantities of data at parks, different screening criteria were employed. The same

criteria for appearance in seasonal and annual tables were used for all parks. Table F presents the least stringent plot screens.

Table F. Least Stringent Plot Screening Criteria Used to Limit the Number of Plots Generated

<p>Time Series:</p> <p>To generate a time series plot, a station/parameter combination must have a period of record of at least 2 years and a total of at least 8 observations.</p> <p>Annual Analysis:</p> <p>To generate an annual box-and-whiskers plot, a station/parameter combination must have at least 9 observations in each of at least 4 years. The years do not have to be consecutive.</p> <p>Seasonal Analysis:</p> <p>To generate a seasonal box-and-whiskers plot, a station/parameter combination must have at least 9 observations in each of 2 seasons and a period of record of at least 6 years and observations in at least 3 of the 6 years. The years do not have to be consecutive.</p>
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The exact three plot screens used varied by park unit and are documented in the Overview section of the Water Quality Results chapter. If your park's plotting criteria deviated from these least stringent criteria, it is because too many plots would have been generated using these criteria.

The criteria used for appearance of station/parameter combinations in annual and seasonal analysis tables are presented in Table G. These tabular criteria, which are actually the least stringent plotting criteria, were constant from park to park.

Table G. Criteria Used for Generating Entries in Annual and Seasonal Analysis Tables

<p>Annual Analysis:</p> <p>For an entry to appear in an annual table, a station/parameter combination must have at least 9 observations in each of at least 4 years. The years do not have to be consecutive.</p> <p>Seasonal Analysis:</p> <p>For an entry to appear in a seasonal table, a station/parameter combination must have at least 9 observations in each of 2 seasons and a period of record of at least 6 years and observations in at least 3 of the 6 years. The years do not have to be consecutive.</p>
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Statistical Definitions

Since this report is intended only to characterize historical and/or existing water quality at the park rather than address specific water quality problems, only simple descriptive statistics are presented. Inferential and non-parametric statistical analysis to examine relationships and trends were beyond the scope of the study. The complete water quality dataset is provided on disk accompanying this report to afford the opportunity for more detailed exploratory data analysis. The descriptive statistics are included in the inventory, annual, and seasonal tables. Table H provides a brief definition of each descriptive statistic provided for each parameter at a station.

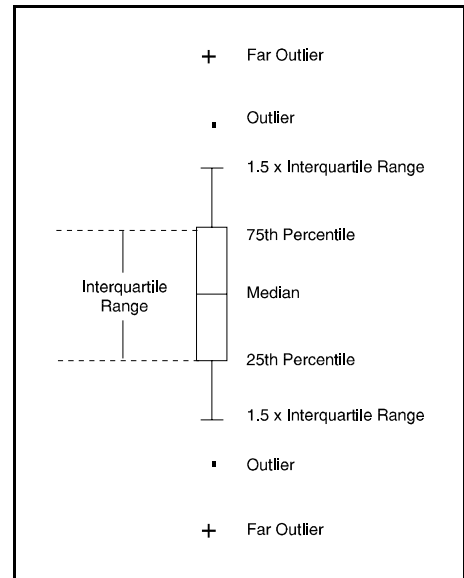
Table H. Definition of Descriptive Statistics Contained in Inventory, Annual, and Seasonal Tables

Observations:	The number of samples collected.
Median:	The median is the 50th percentile or the value in a dataset sorted in ascending order that exceeds 50% of all observations, yet is also exceeded by the remaining 50% of all observations.
Mean:	The sum of all observations collected divided by the number of observations.
Maximum:	The maximum value observed.
Minimum:	The minimum value observed.
Variance:	This is a measure of variability or dispersion of the observations; or, in other words, describes how many observations are close (or far), from the mean. It is calculated as the weighted average of the squared deviations from the mean.
Standard Deviation:	The positive square root of the variance.
10th Percentile:	The value in a dataset sorted in ascending order that exceeds 10% of all observations, yet is itself exceeded by the remaining 90% of all observations.
25th Percentile:	The value in a dataset sorted in ascending order that exceeds 25% of all observations, yet is itself exceeded by the remaining 75% of all observations. The 25th percentile is also known as the first quartile.
75th Percentile:	The value in a dataset sorted in ascending order that exceeds 75% of all observations, yet is itself exceeded by the remaining 25% of all observations. The 75th percentile is also known as the third quartile.
90th Percentile:	The value in a dataset sorted in ascending order that exceeds 90% of all observations, yet is itself exceeded by the remaining 10% of all observations.

As with the tabular descriptive statistics, the scope of the project limited the generation of exploratory graphics to time series plots and annual and seasonal box-and-whiskers plots. Plots were only generated, however, provided the parameter met or exceeded the relevant plotting criteria specified in the previous section.

Time series plots display the parameter concentration on the Y-axis and the date on the X-axis. This provides the user with a visual feeling for not only the parameter's concentration and variability over time, but also the density of data in different time periods. The time series plots provide a visual representation of the data in the basic station inventory. Due to software limitations, a line connects each measured value in sequence regardless of the time period between samples. Readers are cautioned not to assume that the concentration of the parameter between any two data points can be represented by a straight line. It is likely that the concentration varied between any two observations, particularly if the observations are separated by a significant time period.

The annual and seasonal box-and-whisker plots provide a graphical overview of the measured data and give the user a better understanding of the data's distribution and possible outliers. In essence, the box-and-whisker plots provide a visual representation of the data contained in the annual and/or seasonal tables. The interpretation of the boxes is provided in the figure to the right. Each box encompasses the middle 50 percent of measured values (from the 75th to 25th percentiles). The difference between the 75th and 25th percentiles is also known as the interquartile range. The horizontal line inside each box is the median or 50th percentile. The lines which extend out from each end of the box are the whiskers. The whiskers extend out from first quartile (25th percentile) and third quartile (75th percentile) to the smallest data point within 1.5 interquartile ranges from the first and third quartiles. Observations that extend beyond the whiskers are known as outliers. Far outliers are observations whose values lie more than three interquartile ranges below the first quartile or above the third quartile. These are designated with plus signs.



INTERPRETIVE GUIDE

TO WATER QUALITY RESULTS

This interpretive guide discusses each of the products presented in the next chapter - Water Quality Results. This chapter highlights how each of the tables and figures were prepared and how they can be used. Each subheading in this chapter corresponds to a particular product in the subsequent Water Quality Results chapter.

Overview

The Overview provides a brief one-page summary of the results of the various database retrievals for both the study area and the park. The study area results include the park results since the study area encompasses the park and all lands and waters within at least 3 miles upstream and 1 mile downstream of the park. Thus, the GIS estimated acreage of the study area should always be greater than the park acreage. The park acreage was computed from the digital boundary that was obtained for the park. More than likely this acreage will differ, perhaps significantly, from the "official" published acreage for the park due to the spatial and temporal accuracy of the digital boundary, treatment of inholdings, and other concerns. The number of STORET stations is the number of locations within the study area and park where an agency monitored (or intended to monitor) water quality. The number of stations with no data reveals the number of stations created in STORET for which water quality data were never entered. The number of stations with no statistical analysis reports the number of stations in the study area and park that contain data not amenable to normal parametric statistics. The number of longer term stations indicates the number of stations in the study area and park with at least 6 parameters having periods-of-record extending 2 years with an average of at least 1 observation per year over the period-of-record. The date of STORET retrieval is the calendar date when Horizon Systems downloaded all the data from STORET. Thus, the report documents all data entered in STORET prior to the retrieval date. Keep in mind that an agency can upload archival data at any time. Consequently, a retrieval date only guarantees that as of that date, this report contains all the data that had been entered into STORET. The period of record is the earliest date for which water quality data exist in STORET for the study area and park up to the date when the most recent data were entered prior to the retrieval date. The number of parameters measured is the number of unique water quality parameters measured within the study area and park and entered in STORET. The number of water quality observations is the sum of the total number of observations across all parameters within the study area and park. The number of industrial/municipal facilities discharges, drinking water intakes, water gages, and water impoundments are the number of each of these entities found within the study area and park. The number of time series, annual, and seasonal plots are the number of these different types of graphics produced by station/parameter combinations within the study area and park using the plotting criteria described in the previous chapter. The hydrologic seasons, described below, are the seasons used for the seasonal water quality data analysis. The time series, annual, and seasonal criteria are the plot and tabular screening criteria described in the previous chapter.

Regional Location Map

The Regional Location Map provides a small scale, general representation of the park and study area location within the United States. Digital, reproducible copies of this graphic are included on the disk(s) accompanying this report.

Water Quality Monitoring Locations Map(s)

The Water Quality Monitoring Locations Map(s) usually provides a larger scale representation of the park and study area than the Regional Location Map. This map indicates the locations within the study area where water quality has been monitored and the data entered into STORET. The water quality monitoring stations are labelled sequentially with the rightmost significant digits. The station names were assigned in numerically ascending order by latitude (for parks with a greater north-south extent than east-west) or longitude (for parks with a greater east-

west extent than north-south). Thus, this map serves as a visual index to the water quality data contained in the report. Since the 1:100,000 scale hydrography (from the River Reach File Ver. 3.0 or other sources) is displayed on the map, users can refer to the map to locate the station number on the reach in which they are interested and then find the appropriate section in the report that documents the water quality at that station. If the scale allows, USGS catalog units are also displayed on the map to provide an approximation of drainage basins. More than one Water Quality Monitoring Location map may be presented if the scale requires breaking the area into multiple maps for legibility. If multiple maps are necessary, an index map showing the geographic extent of each sub-map or panel will be present. Digital, reproducible copies of this graphic are included on the disk(s) accompanying this report. The digital, geo-referenced data files documented in Appendices A and B will allow the park to create water quality monitoring stations as a coverage in their GIS.

Dischargers, Drinking Intakes, Gages, and Impoundments Map(s)

The Dischargers, Drinking Intakes, Gages, and Impoundments Map(s) displays the same information as the Water Quality Monitoring Location Map(s) except the water quality stations are replaced by industrial/municipal facilities discharges, drinking water intakes, active and inactive gage locations, and water impoundments. This map also serves as a visual index allowing the user to determine the identification code of each discharger, drinking intake, gage, or impoundment. This number can then be used to obtain additional information about the entity on the following page of the report or to refer to the more detailed database files accompanying the report on disk. These more detailed database files are geo-referenced (See Appendices A and B), thus allowing the park to create these coverages in their GIS. More than one Dischargers, Drinking Intakes, Gages, and Impoundments map may be presented if the scale requires breaking the area into multiple maps for legibility. If multiple maps are necessary, an index map showing the geographic extent of each sub-map or panel will be present. Digital, reproducible copies of this graphic are also included on the disk(s) accompanying this report.

Industrial Facilities Discharges, Drinking Water Intakes, Water Gages, and Water Impoundments Table

This table provides some additional information about each of the discharges, drinking intakes, water gages, and water impoundments displayed on the previous map(s). This information generally includes the site identification number; the station or facility name; an address or some other indication of location; and some other pertinent information. More detailed information about each of these entities is contained in the database files on disk accompanying the report (See Appendices A and B).

Representative Mean Annual Hydrograph for Seasonal Analysis

One component of the water quality data analysis contained in the document is a seasonal analysis of the data (where adequate data exist). In order to undertake this analysis, some representation of the park's seasons was required. Seasons can be based on many factors (eg. hydrologic, climatic, recreational use, etc.). Since project resources did not allow us to contact every park and discuss with resource management staff what appropriate seasons may be for the park, WRD staff elected to adopt primarily a hydrologic/climatic definition of the seasons which uses a process of hydrograph separation to glean seasons from stream discharge patterns. The procedure employed to make these determinations was as follows:

- (1) Find the nearest USGS Hydro-Climatic Data Network (HCDN) station (U.S. Geological Survey 1992) to the park that is most representative of streamflow conditions at the park. The HCDN is basically a subset of USGS streamflow stations, including only those stations that are unaffected by artificial diversions, storage, or other disruptions of the natural channel. All HCDN stations generally have at least a 20 year period of record. Consequently, discharge patterns at these stations should reflect only hydrologic and climatic influences. For the most part, selected HCDN sites were typically within 15-20 miles of the park. In some parks where WRD staff were aware of the existence of a stream gage located within the park that would be more representative of park waters even though it wasn't an HCDN site, this gage was selected.

- (2) Retrieve the daily discharge values for the selected station from the USGS Daily Values File and generate a mean annual hydrograph and a box-and-whiskers plot of daily flows by month.
- (3) Interpret the plots based on our knowledge of the hydrologic regime at these parks and assign seasons.

This approach, used for the majority of parks, assumes that most water quality data at the park will be found in streams and that the discharge pattern of the selected stream is representative of the seasons for all park waterbodies. Although this assumption may be weak for certain parks, project resources did not allow a more thorough investigation. For parks where there wasn't any stream gage (HCDN or otherwise) deemed representative of park waters, precipitation records from a nearby meteorological station were obtained from the National Climatic Data Center. Plotting daily average precipitation and box-and-whiskers of monthly precipitation sums allowed WRD hydrologists to make a rough approximation of climatic seasons for use in analyzing the water quality data.

Again, it is important to note the many ways of defining "seasons" and thus the limitations of the seasonal analysis contained in this document. For certain parks it may be more useful to perform a seasonal analysis with seasons defined by recreational use patterns or some other natural or anthropogenic factor. This option is available to the park since all the water quality data analyzed in this document is contained on disk(s) accompanying this report. Digital, reproducible copies of this seasonal analysis graphic are also included on the disk(s) accompanying this report.

Contacts for Agency Codes Retrieved

This table provides a list of the organizations who have entered data into STORET. A contact name at the organization and a phone number are also supplied. The agency code in the first column is the key for identifying which stations belong to that agency. This code will appear in the first line of each station's inventory. Although the agencies listed in this table are potential partners for future water quality monitoring or management endeavors, don't be surprised if the name of the contact and/or the telephone number is out of date. This information is entered when an agency first creates a station. The agency may not update this information when the initial contact moves on or the telephone number changes. Nonetheless, it is likely that the contact or someone else at the agency may be able to provide you with project reports or other information relative to the agency's data. A digital copy of this table accompanies this report on disk (See Appendices A and B).

Quantity of Data Retrieved by Agency Code

This table displays the period-of-record; numbers of water quality stations, longer-term stations, and stations without data; total number of water quality observations; and the number of unique water quality parameters measured by each agency within the study area and park boundary. Using this table, a park can quickly determine which agencies collect the most data in and around the park and whether they have monitored recently. A digital copy of this table accompanies this report on disk (See Appendices A and B).

Station Period of Record Tabulation

The Station Period of Record Tabulation provides a quick overview of the names of all the stations within the study area where water quality has been monitored and data entered into STORET. It also furnishes the total number of observations taken at each station and the frequency of observations between certain dates: (1) 01/01/85 until the most recent date data were measured; (2) 01/01/75 - 12/31/84; and (3) prior to 01/01/75. The station identification number, the four character park abbreviation code followed by a four digit number, provides the means to jump from a particular station in the table to the statistical and graphical analyses for this station contained in the Station-By-Station Results section. The Station Period of Record Tabulation reveals which water

quality stations were situated within the park as defined by the park's GIS boundary. The Station Period of Record Tabulation also footnotes longer-term water quality stations. Longer-term stations are those that have at least 6 parameters with an average of one or more observations per year for those parameters during a period of record extending at least two years. Note that although a station may not be flagged as longer-term, it can still harbor much important data (albeit for only a few parameters or over a very long term with just a few observations). A digital copy of this table accompanies this report on disk (See Appendices A and B).

Parameter Period of Record Tabulation

The Parameter Period of Record Tabulation provides a complete listing of every water quality parameter ever measured in the study area and entered into STORET. This table is a summation of all the water quality observations for each parameter across all stations in the study area. Like the Station Period of Record Tabulation, the total number of observations for each parameter and the frequency of observations between: (1) 01/01/85 until the most recent date data were measured; (2) 01/01/75 - 12/31/84; and (3) prior to 01/01/75 are provided. This table is handy for quickly assessing whether particular parameters have been measured in the study area. The Parameter Period of Record Tabulation also shows how many in-park (and total) water quality stations contained data for each parameter. Some administrative parameters and parameters not suitable for statistical analysis within the context of this project (as discussed in the Screening Methodologies and Procedures section of the Methodology chapter) are listed in the Parameter Period of Record Tabulation, but not in the Station-By-Station Results section. A digital copy of this table accompanies this report on disk (See Appendices A and B).

Station/Parameter Period of Record Tabulation

The Station/Parameter Period of Record Tabulation combines the information found in the Station Period of Record Tabulation and the Parameter Period of Record Tabulation. This table provides a listing of all the stations where a particular water quality parameter was measured in the study area and the data entered into STORET. The table provides the start and end dates of the period of record of each parameter at each station; the number of years of measurement (computed from the start and end dates); whether the station/parameter combination occurred within the park boundary; the total number of observations for each parameter at each station, and whether a time series (T), annual (A), and/or seasonal (S) plot was generated for the station/parameter combination in the Station-By-Station Results section. This table is very useful when you need to determine at which locations within the study area (or park) particular parameters were monitored and how much data was collected there. Some administrative parameters and parameters not suitable for statistical analysis within the context of this project (as discussed in the Screening Methodologies and Procedures section of the Methodology chapter) are listed in the Station/Parameter Period of Record Tabulation, but not in the Station-By-Station Results section. A digital copy of this table accompanies this report on disk (See Appendices A and B).

Station-By-Station Results

Probably the most voluminous portion of the document is the Station-By-Station Results. Here the results of the water quality analyses for each station are presented in sequence. The results include the station inventory; parameter inventory; EPA water quality criteria analysis; and, as applicable, time series graphics and annual and seasonal tables and box-and-whiskers graphics. Each of these products are discussed below.

Station Inventory for Station

Each station's data commences with its Station Inventory. The Station Inventory provides the descriptive attributes about each water quality monitoring station contained in STORET. This includes a variety of locational information such as a verbal description, the Federal Information Processing codes for county and state, latitude and longitude, and other items; the station type (stream, spring, estuary, etc.); monitoring agency; creation date; indices to the River Reach File; whether the station lies within the park boundary; and several other attributes. This water quality station location data is also contained on disk(s) accompanying the report (See Appendices A and B).

Parameter Inventory for Station

Following the descriptive attributes about a station is the Parameter Inventory for the station. The Parameter Inventory provides a complete inventory and descriptive summary of all the water quality parameter data for the station. This table furnishes the parameter STORET code and name; the period of record for this parameter at this station; and the descriptive statistics defined in the Statistical Definitions in the previous chapter. Three different footnotes can appear on a parameter's descriptive statistics. Two asterisks (**) in the 10th, 25th, 75th, or 90th percentile columns indicates that there was insufficient data to compute these statistics for this parameter. Percentiles were not computed unless the parameter had at least 9 observations. Two number signs (##) next to the number of observations indicates that more than 50 percent of the observations entered into the computations as values that were taken to be half the detection limit. Caution should be employed in interpreting and using statistical results when more than half the values are set to half the detection limit. The letter "p" following a numeric STORET parameter code in the Parameter Inventory indicates that a time series plot was produced for this parameter at this station. Digital, reproducible copies of the Parameter Inventory tables are contained on the disk(s) accompanying this report.

Two downloaded parameter groups, pH and bacteriological, received special treatment whenever descriptive statistics were computed in the Parameter Inventory (as well as subsequent annual and seasonal tables). Whenever pH appears in a descriptive statistics table, the entry is increased to 3 entries: (1) the original pH entry; (2) pH computed from conversion to and from $\mu\text{eq/l H}^+$; and (3) $\mu\text{eq/l H}^+$. The reason for these conversions is that pH is actually the negative logarithm of the hydrogen ion concentration. To be technically correct in computing descriptive statistics, pH values must be converted to $\mu\text{eq/l H}^+$ (Kunkle and Wilson 1984). Once the descriptive statistics are computed using the pH values expressed as $\mu\text{eq/l H}^+$, the results can be converted back to pH. The three pH entries in the descriptive statistics table will all have the same STORET code.

Whenever a bacteriological parameter appears in a descriptive statistics table, the entry is increased to 3 entries: (1) the original bacteriological entry; (2) an entry computed using the log of each measured value; and (3) an entry that simply reports the geometric mean. The reason for converting to logs and displaying the geometric mean is convention. Bacteriological water quality standards typically reference the geometric mean rather than the arithmetic. The three bacteriological entries in the descriptive statistics tables will all have the same STORET code.

EPA Water Quality Criteria Analysis for Station

The EPA Water Quality Criteria Analysis table follows the Parameter Inventory. This table presents a comparison between the station's STORET water quality data and applicable national water quality criteria for freshwater and marine aquatic organisms; drinking water; and other concerns. Comparison against applicable State water quality criteria was not feasible given project resources. Appendix F provides the relevant national EPA water quality criteria values. In most cases, the EPA water quality criteria values are single sample concentrations that can be directly compared to single sample STORET entries. There are, however, two notable exceptions to this single sample/single value comparison: ammonia and fecal-indicator bacteria. For these two parameters, criteria are either derived from or depend on the results of other chemical characteristics of the water or require a time series statistical treatment of multiple samples to determine whether the criterion has been exceeded. The EPA ammonia criterion is pH and temperature dependent. To calculate the criterion for each ammonia sample value was beyond

the scope of this project. Consequently, ammonia criteria were not included in Appendix F or the EPA Water Quality Criteria Analyses. Un-ionized ammonia criteria can be determined from formula table values included in the EPA Silver Book (Environmental Protection Agency 1995).

For the purposes of this project, fecal-indicator bacteria data were flagged as exceeding criteria when their concentrations exceeded 200, 1000, 126, and 33 (fresh)/35 (salt) colony forming units or most probable number for single samples of fecal coliform, total coliform, E. coli, and enterococci, respectively. These values represent only approximations of the criteria for primary contact recreation waters where criteria are typically expressed in terms of a geometric mean computed with no less than 5 samples during a given month. When a fecal-indicator bacterial observation exceeds a criterion in the EPA Water Quality Criteria Analysis section, the reader should refer to the corresponding geometric mean calculations in the preceding Parameter Inventory. Long-term geometric means that exceed the respective water quality criteria for multiple samples are more indicative of chronic bacteriological problems than single sample values.

Water quality observations carrying non-detection or below-detection limit remark codes (K, T, and U) required special treatment in the EPA Water Quality Criteria Analysis. As with the statistics in the Parameter Inventory, half the detection limit was the value used in the EPA Water Quality Criteria Analysis. For certain observations, however, half the detection limit may exceed a water quality criterion. For those observations it would be inappropriate to classify them as exceeding a criterion since the actual value wasn't known. Thus, it was decided that any below detection limit or non-detect observations that exceed a water quality criterion using half the detection value would be excluded from the EPA Water Quality Criteria Analysis. If non-detect or below detection limit values are excluded from the EPA Water Quality Criteria Analysis for a particular parameter, the total observations for that parameter will be footnoted with an ampersand (&). This will also explain the difference between the total observations in the Parameter Inventory and the EPA Water Quality Criteria Analysis. Non-detect or below detection limit values are included in the EPA Water Quality Criteria Analysis, however, if half the detection limit doesn't exceed the parameter's criterion.

The EPA Water Quality Criteria Analysis for each station lists the parameter; the standard type and value; the total number of observations for the parameter at this station; the number of observations that exceeded the standard value; and the proportion of observations that exceeded the standard value. Water quality observations are considered as having exceeded a criterion regardless of whether the criterion represents a maximum acceptable value or a minimum acceptable value. The table also breaks down the water quality criteria analysis on a seasonal basis to allow the reader to discern whether parameter observations tend to exceed criteria during only certain seasons or year round. Although the EPA Water Quality Criteria Analysis table is a good starting point for assessing potential water quality problems at the station, the reader is strongly encouraged to read the caveat section in the Introduction concerning drawing conclusions about water quality problems from this table. Digital, reproducible copies of these tables accompany the report on disk (See Appendices A and B).

Time Series Plots for Station

Following the EPA Water Quality Criteria analysis will be any Time Series Plots for each parameter that met the time series plot screening criterion selected for the park unit. If a time series plot is generated for a particular parameter at a station, a "p" will appear next to the STORET parameter code in the Parameter Inventory. If no time series plots are present for the particular station, the data did not meet the time series screening criterion listed in the Overview section of the Water Quality Results chapter. The x-axis on these plots is the period of record, listing only the 2-digit calendar year for clarity (i.e. 1983 is presented as 83). The y-axis is the concentration of the selected parameter in its measurement units. In general, the units for a given parameter are given either on the y-axis or in the parameter description in the subtitle of the graph. Subtitle and/or y-axis parameter descriptions may be truncated on the plots so as to not exceed the maximum number of plotting characters. Y-axis values less than zero are sometimes shown for better representation of the entire plot. The station identification code, parameter description, and parameter STORET code are presented in the main title. The footnote provides a descriptive location name. Observations on the plot are represented as squares. Lines are drawn connecting each successive observation. As mentioned previously in the Statistical Definitions section of the Methodology chapter, the interconnecting line is drawn only for ease of reading and provides no indication of what the actual parameter

values were between the two observed measurements. Digital, reproducible copies of all time series plots accompany the report on disk (See Appendices A and B).

For time series plots of pH, the original pH values are plotted. For time series plots of bacteriological data, the log of the measured value is plotted. Hence, the y-axis of a time series plot for bacteriological parameters is log-linear.

Annual Analysis for Station

If more than 9 observations exist in each of at least 4 years for a particular parameter at a station, an Annual Analysis table will be generated. Entries will be made in the table for each parameter having more than 9 observations in each of at least 4 years. The Annual Analysis presents the same descriptive statistics as the Parameter Inventory table, except that it provides the statistics by year, rather than the entire period of record. Although some of the years may not contain 9 observations, these years still have an entry in the table. A parameter needs only to have 9 observations in any 4 years of its period of record to qualify for the Annual Analysis table. Like the Parameter Inventory, percentiles with fewer than 9 observations are not computed and entries computed with greater than 50 percent of the data values set to half the detection limit are flagged. Entries in the Annual Analysis table that also meet the annual analysis box-and-whisker plot screening criterion will be flagged with a "p" next to the STORET code. Digital, reproducible copies of these tables accompany the report on disk (See Appendices A and B).

Annual Box-and-Whiskers Plots for Station

Entries in the Annual Analysis table that meet the annual box-and-whisker plot screening criterion will generate Annual Box-and-Whiskers Plots. The interpretation of box-and-whiskers plots is explained in the Statistical Definitions section of the Methodology chapter. A box is generated for each year of the period of record, even if less than 9 observations were recorded in the year. The axis labeling and plot titling is the same as for the time series plots. Digital, reproducible copies of these graphics accompany the report on disk (See Appendices A and B).

For annual box-and-whiskers plots of pH, $\mu\text{eq/l H}^+$ are plotted. For annual box-and-whiskers plots of bacteriological data, the log of the measured value is plotted. Hence, the y-axis of an annual box-and-whiskers plot for bacteriological parameters is log-linear.

Seasonal Analysis for Station

As explained above, a park's hydrologic seasons for seasonal water quality analysis were determined using a process of hydrograph separation and other techniques. If a parameter has more than 9 observations in each of 2 seasons with a period of record of at least 6 years and observations in at least 3 of the 6 years, a Seasonal Analysis table will be generated for the station. The Seasonal Analysis presents the same descriptive statistics as the Parameter Inventory table, except that it provides the statistics by season, rather than the entire period of record. Although certain parameters for a season at a station may not contain 9 observations, these parameters can still have an entry in the table. A parameter needs only to have 9 observations in each of 2 seasons with a period of record of at least 6 years and observations in at least 3 of the 6 years to qualify for the Seasonal Analysis table. Consequently, some of the parameters could have fewer than 9 observations in a particular season but still generate a table entry. Like the Parameter Inventory and Annual Analysis, percentiles with fewer than 9 observations are not computed and entries computed with greater than 50 percent of the data values set to half the detection limit are flagged. Entries in the Seasonal Analysis table that also meet the seasonal analysis box-and-whisker plot screening criterion will be flagged with a "p" next to the STORET code. Digital, reproducible copies of these tables accompany the report on disk (See Appendices A and B).

Seasonal Box-and-Whiskers Plots for Station

Entries in the Seasonal Analysis table that meet the seasonal box-and-whisker plot screening criterion will generate Seasonal Box-and-Whiskers Plots. The interpretation of box-and-whiskers plots is explained in the Statistical Definitions section of the Methodology chapter. A box is generated for each season of the period of record, even if less than 9 observations were recorded in the season. On the x-axis, the seasons are labeled 1 through the number of seasons defined for the park through hydrograph separation. The actual calendar dates that correspond to these numerically labeled seasons exist in the Overview section and the Seasonal Analysis tables in the Water Quality Results chapter. The axis labeling and plot titling are the same as for the time series and annual box-and-whiskers plots. Digital, reproducible copies of these graphics accompany the report on disk (See Appendices A and B).

For seasonal box-and-whiskers plots of pH, $\mu\text{eq/l H}^+$ are plotted. For seasonal box-and-whiskers plots of bacteriological data, the log of the measured value is plotted. Hence, the y-axis of a seasonal box-and-whiskers plot for bacteriological parameters is log-linear.

EPA Water Quality Criteria Analysis for Entire Park Study Area

This table essentially summarizes all the individual station-by-station EPA water quality criteria analyses in the study area. (Refer to the EPA Water Quality Criteria Analysis for Station section above for more detailed information on the treatment of special cases in the EPA Water Quality Criteria Analysis for Entire Park Study Area.) This table presents a comparison between the study area's STORET water quality data and applicable national water quality criteria for freshwater and marine aquatic organisms; drinking water; and other concerns. Comparison against applicable State water quality criteria was not feasible given project resources. Appendix F provides the relevant national EPA water quality criteria values. The EPA Water Quality Criteria Analysis for the Entire Park Study Area lists the parameter; the standard type and value; the total number of observations for the parameter at this station; the number of observations that exceeded the standard value; and the proportion of observations that exceeded the standard value. Water quality observations are considered as having exceeded a criterion regardless of whether the criterion represents a maximum acceptable value or a minimum acceptable value. The table also breaks down the water quality criteria analysis on a seasonal basis to allow the reader to discern whether parameter observations tend to exceed criteria during only certain seasons or year round. Although the EPA Water Quality Criteria Analysis for the Entire Park Study Area is a good starting point for assessing potential water quality problems at the park, the reader is strongly encouraged to read the caveat section in the Introduction before drawing conclusions about water quality problems from this table. A digital, reproducible copy of this table accompanies the report on disk (See Appendices A and B).

NPS Servicewide Inventory and Monitoring Program

Level I Water Quality Inventory Data Evaluation and Analysis (IDEA)

One of the objectives of this Baseline Water Quality Data Inventory and Analysis project is to perform an IDEA - an Inventory Data Evaluation and Analysis - to determine the presence and/or absence of Servicewide Inventory and Monitoring Program "Level I" water quality parameter groups in the park's study area. The Strategic Plan for Conducting Baseline Natural Resource Inventories in the National Park Service (National Park Service 1993) identified the basic water quality parameters displayed in Table I as the parameters that all parks must have for "key" waterbodies (determined on the basis of size, uniqueness, threats, etc.) within park boundaries. Since these parameters can be measured in different ways and with different units, there are multiple STORET codes associated with each parameter; hence the concept of parameter groups. The Strategic Plan distinguishes between those parameter groups required for all parks and parameter groups required only on a case-by-case basis.

The IDEA basically compares the parameters listed in the Parameter Period of Record Tabulation and Station/Parameter Period of Record Tabulation with the "Level I" Servicewide Inventory and Monitoring water quality parameter groups, listed in Table I and in Appendix G, and notes, not only the presence or absence of each parameter group, but the total number of observations for each parameter present in the group; the number of

observations between certain time periods; and the total number of stations within the study area at which the parameter was measured. The total number of different (unique) stations measuring parameters for the group is in parentheses on each parameter group's summary line.

The first page of the IDEA lists the missing Servicewide Inventory and Monitoring Program "Level I" groups. If a parameter group appears on this list, no data for any of the parameters defining the group (See Appendix G) was retrieved for it within the study area. So-called non-priority parameter groups may appear in the missing list. Non-priority parameters are park-specific parameters (case-by-case) which may not be applicable to your park. Consequently, if you believe a particular parameter, not included in IDEA (See Appendix G), to be important for your park, you will have to consult the Parameter and Station/Parameter Period of Record Tabulations to determine the presence or absence of this parameter for the park. Although considered a "Level I" parameter, biological data, obtained through rapid bioassessment or other means, is not considered in this report which deals specifically with surface water chemistry. Following the Missing Level I Group list is the Present Level I Group list which displays the summary results for each Servicewide Inventory and Monitoring "Level I" water quality parameter group that was found.

Table I. Basic "Level I" Water Quality Parameters Identified as Required and Optional By the Servicewide Inventory and Monitoring Program for "Key" Park Waterbodies

<p><u>Required Parameter Groups:</u></p> <p>(1) Alkalinity</p> <p>(2) pH</p> <p>(3) Conductivity</p> <p>(4) Dissolved Oxygen</p> <p>(5) Rapid Bioassessment Baseline (EPA/State protocols, involving fish and macroinvertebrates)</p> <p>(6) Temperature</p> <p>(7) Flow</p> <p><u>Case-By-Case Parameters Groups:</u></p> <p>(8) Toxic Elements</p> <p>(9) Clarity/Turbidity</p> <p>(10) Nitrate/Nitrogen</p> <p>(11) Phosphate/Phosphorus</p> <p>(12) Chlorophyll</p> <p>(13) Sulfates</p> <p>(14) Bacteria</p>

The last page of the IDEA summarizes the information from the Missing and Present Level I Group lists. This page provides information on the temporal and spatial distributions of the data. Included in this table are the total number of observations for each parameter group; the number of observations since January 1, 1985; the percent of the total observations since January 1, 1985; the number of stations measuring each parameter group; the percent of the total number of stations with data measuring the parameter group; the number of observations per station with data; the period-of-record for this parameter group; and the average number of observations per year of the period-of-record.

In interpreting the results of the IDEA, the reader should first consult the Missing Level I Group list. For the parameter groups listed, there was no baseline water quality data within the study area entered in STORET. Consequently, these parameter groups could be a higher priority for data collection. It is important, however, to realize that data within these parameter groups may have been already collected but not entered into STORET. The resources for this project did not enable us to pursue thorough literature and file cabinet reviews to dredge up

every last iota of data. If data exists for certain Servicewide Inventory and Monitoring Program "Level I" water quality parameter groups in a park's file cabinet, it is the park's responsibility to factor that data into their IDEA. Consequently, the listing of a parameter group on the Missing "Level I" Group list is not a WRD endorsement to launch a study to collect these data. The IDEA is intended to simply note that no data exist for these parameter groups in STORET for the park. It is the park's responsibility to ascertain whether such data has already been collected by the park or other entities before embarking on a new study. In fact, in the future the WRD will require that any park study plan proposing to collect baseline water quality data show that they have consulted their Baseline Water Quality Data Inventory and Analysis report and searched in other locations (file cabinets, published literature, etc.) for the data they propose to collect. A similar interpretation springs from the Present "Level I" Group list. Insufficient data density in certain time periods for particular parameter groups is not necessarily cause for launching a new inventory and/or monitoring program. The park should still consult with other potential sources of data. Again, the IDEA is designed to provide only a quick check on data in STORET for the Servicewide Inventory and Monitoring Program "Level I" water quality parameter groups.

Water Quality Observations Outside STORET Edit Criteria for Park

STORET data entered after November 1983 were subjected to rudimentary edit/bounds checking for 190 common parameters (See the STORET Edit Criteria in Appendix C). None of the data entered into STORET prior to that time has been subjected to edit/bounds checking. Moreover, to maintain exact comparability with USGS WATSTORE data, WATSTORE data entered into STORET has never been subjected to the EPA edit/bounds checking. During the pilot test phase of this project, obviously incorrect data was identified from both USGS and other agency data in STORET. As a consequence, all data downloaded from STORET was filtered through the STORET edit criteria to identify parameter observation values that fall outside any edit criterion ranges. This section documents the station name, parameter, date, time, parameter value, agency, and STORET station name of every observation that fell outside the range of an edit criterion. Not all data falling outside an edit criterion are necessarily incorrect. Such data may represent unique or special conditions. Consequently, every observation falling outside a STORET edit criterion was scrutinized to determine, in our best professional judgement, whether the value was in the realm of possibility or obviously incorrect. Water quality observations that appeared to be obviously incorrect are marked with an "X" in the Disposition column of this table. These values were not retrieved or included in any of the inventory tables or graphs. Water quality values outside a STORET edit criterion but within the realm of possibility were retained and included in inventory tables and graphs. The Water Quality Observations Outside STORET Edit Criteria for Park table documents all values that were outside an edit criterion range. This documentation is also necessitated by the fact that agencies can override the STORET edit criteria for individual observations. Although the edit criteria eliminate some potentially "bad" data from the report, the probability of other incorrect data, for both the 190 parameters that are edit/bound checked and all the other STORET parameters that aren't error checked, is high. Readers should consult the Caveat section in the Introduction for guidelines on the use and interpretation of STORET data. The responsibility for correcting these observations rests with the collecting agency.

WATER QUALITY RESULTS

OVERVIEW FOR TUZI

Study Area Boundary Description

The study area includes the park and all areas within at least 3 miles upstream of the park unit boundary and at least 1 mile downstream.

	<u>Study Area</u>	<u>Park</u>
GIS Estimated Acreage:	74772	816
# STORET Stations:	115	20
# Stations With No Data:	4	0
# Stations With No Stat. Analysis:	0	0
# Longer Term Stations:	8	0
Date of STORET Retrieval:	12/21/98	12/21/98
Period of Record:	10/10/51-07/23/96	08/18/59-08/04/93
# Parameters Measured:	490	122
# Water Quality Observations:	19593	887
# Industrial/Municipal Facilities:	2	0
# Drinking Water Intakes:	0	0
# Water Gages:	2	0
# Water Impoundments:	0	0
# Total Plots:	94	0
# Time Series:	29	0
# Annual:	33	0
# Seasonal:	32	0

Hydrologic Definition of Seasons:

1. October 10 - February 9
2. February 10 - April 30
3. May 1 - June 30
4. July 1 - October 9

Time Series Plot Criteria:

To be included in the time series plots, a station/parameter combination must have at least 18 years and at least 104 observations.

Annual Analysis Criteria:

To be included in the annual box-and-whisker plots, a station/parameter combination must have at least 9 observations in each of at least 10 years.

To be included in the annual analysis tables, a station/parameter combination must have at least 9 observations in each of at least 4 years.

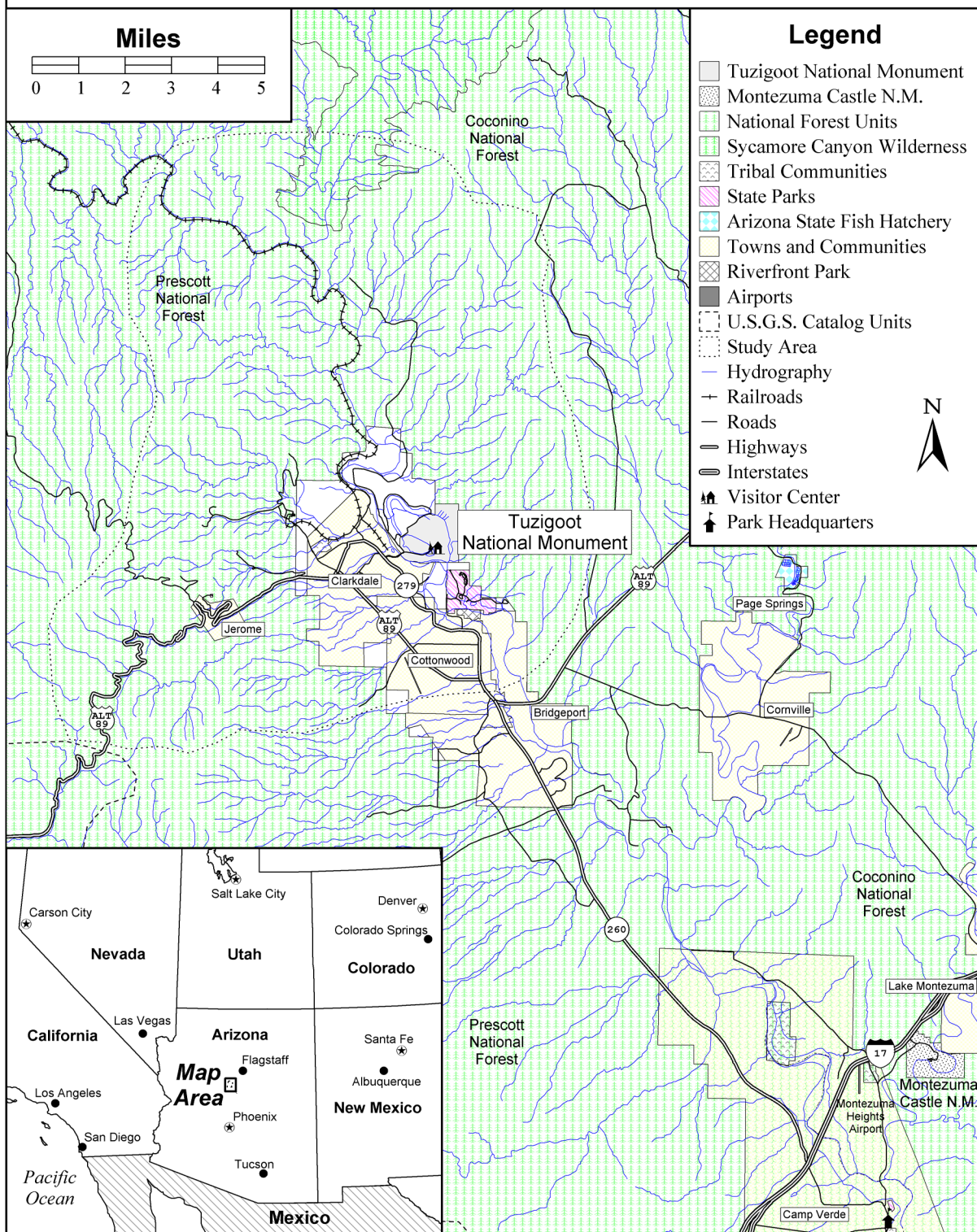
Seasonal Analysis Criteria:

To be included in the seasonal box-and-whisker plots, a station/parameter combination must have at least 9 observations in each of 2 seasons and a period of record of at least 18 years and observations in at least 4 of the 18 years.

To be included in the seasonal analysis tables, a station/parameter combination must have at least 9 observations in each of 2 seasons and a period of record of at least 6 years and observations in at least 3 of the 6 years.

Tuzigoot National Monument

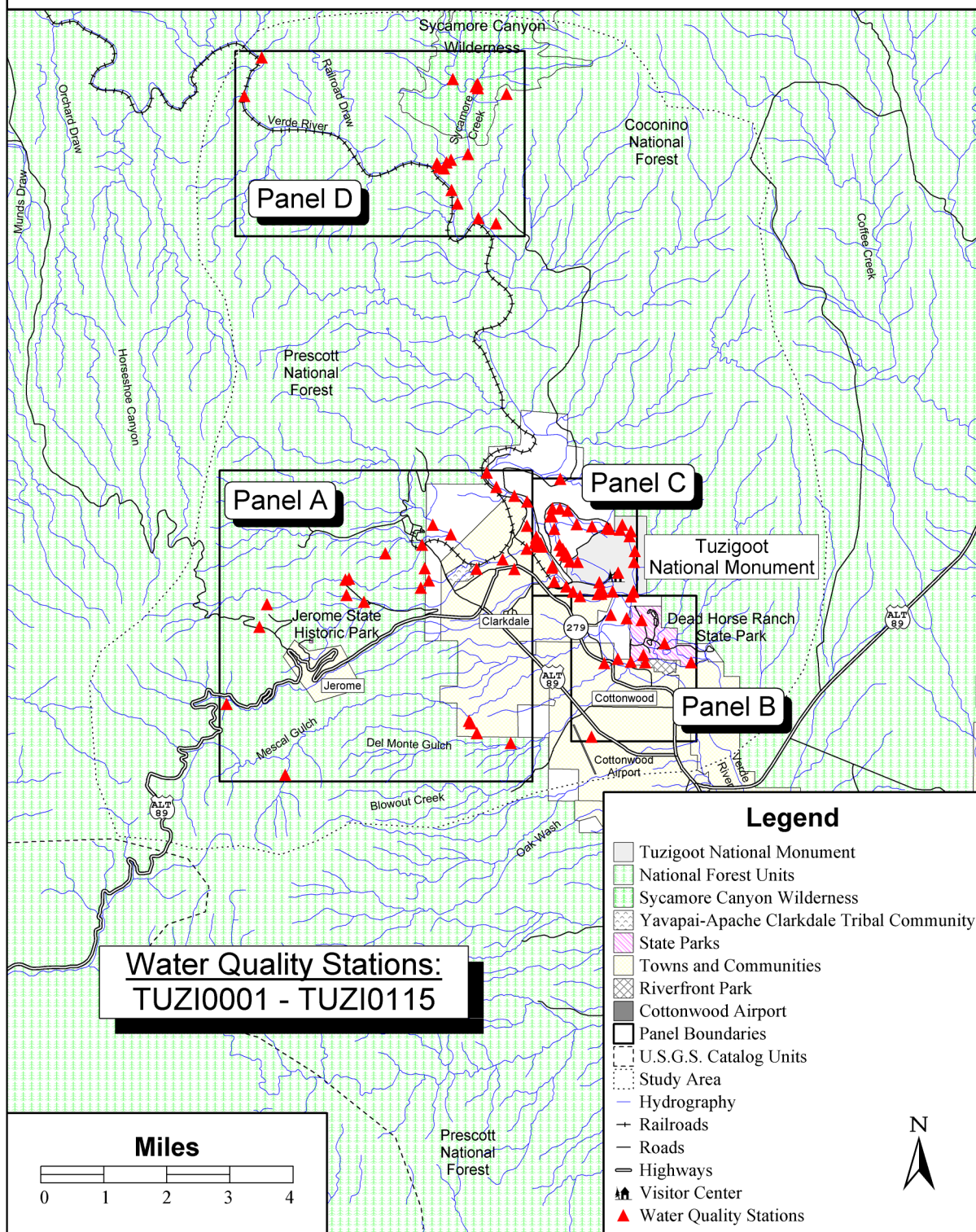
Regional Location Map



Tuzigoot National Monument

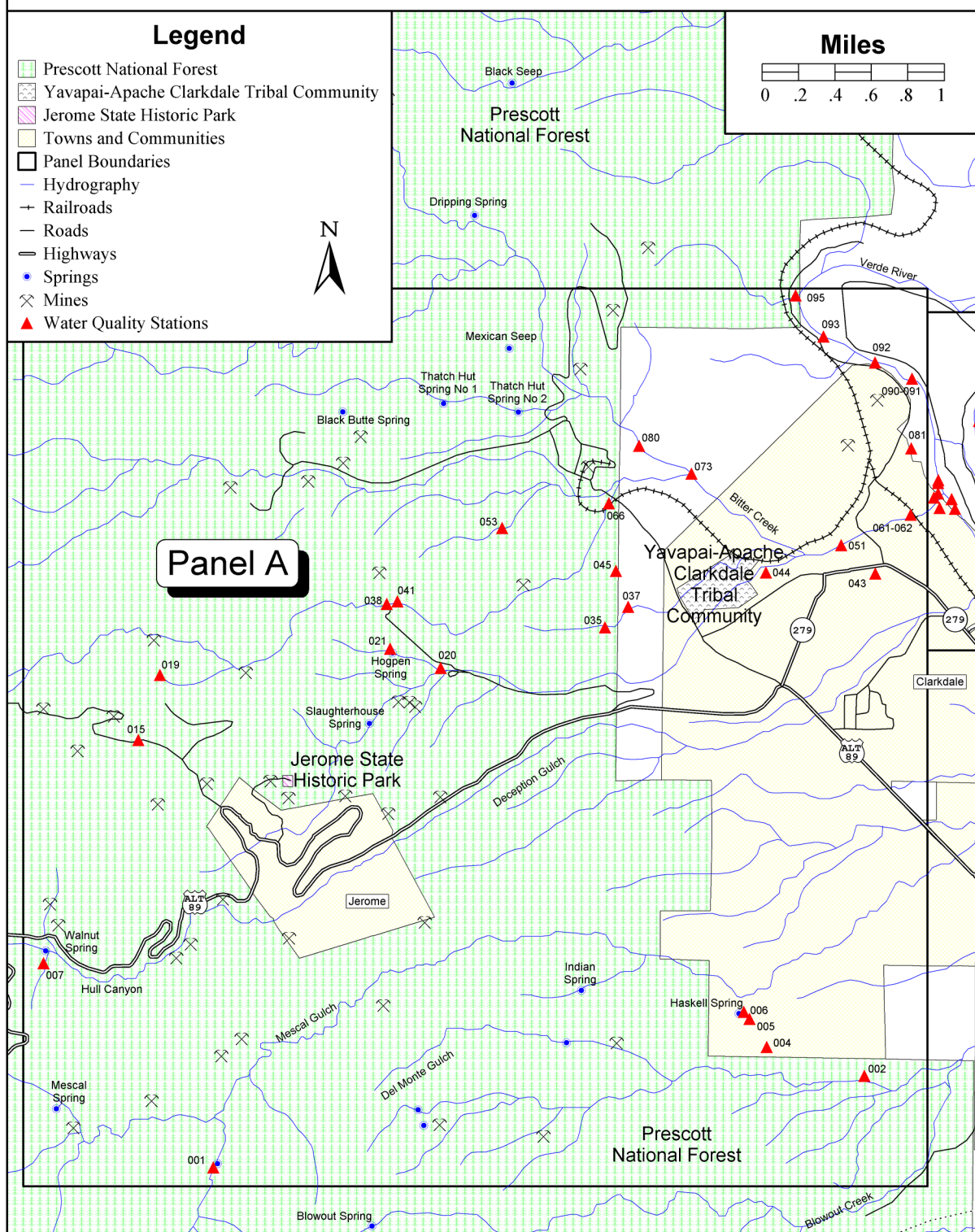
Water Quality Monitoring Locations

Graphic Panel Index



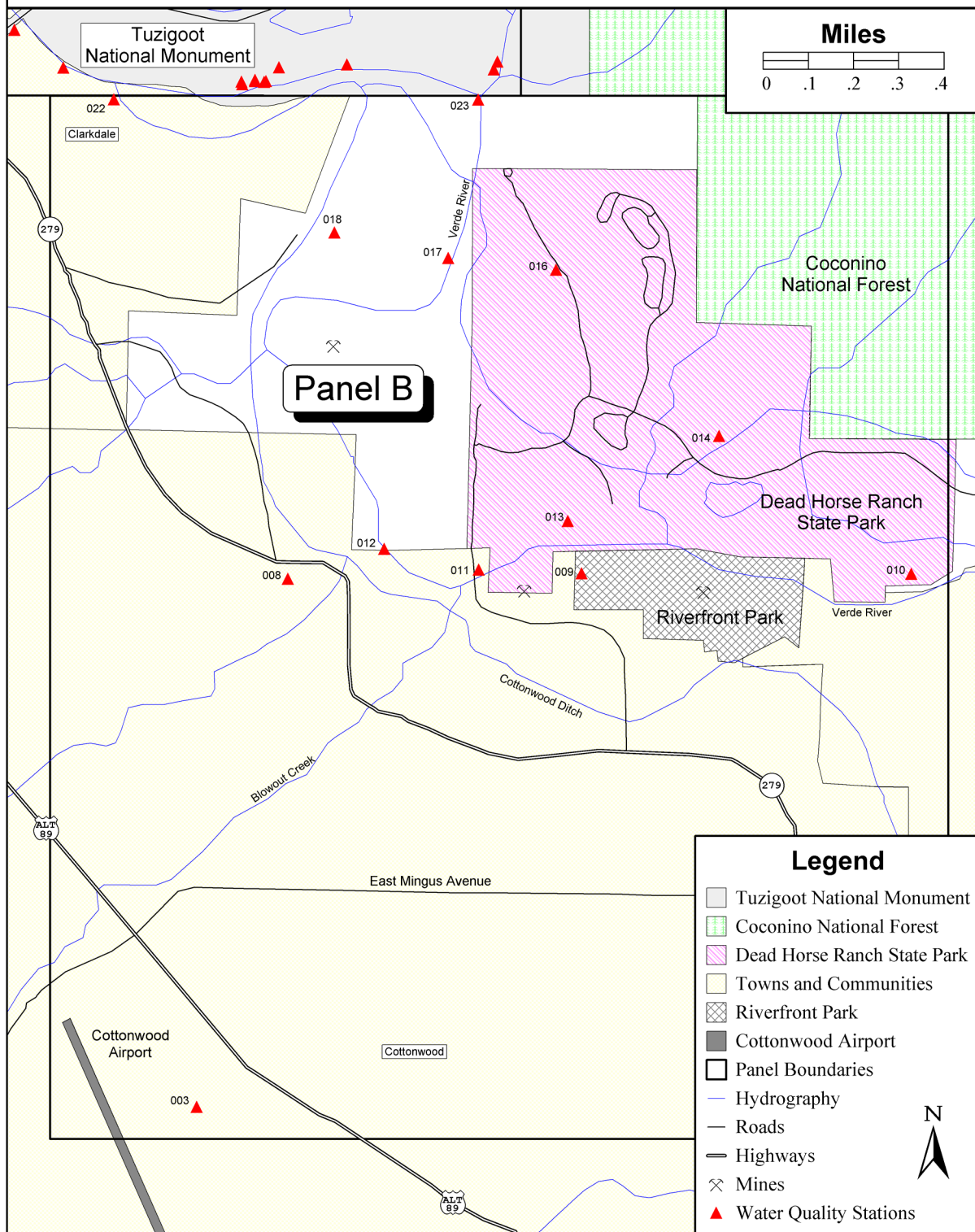
Tuzigoot National Monument

Water Quality Monitoring Locations



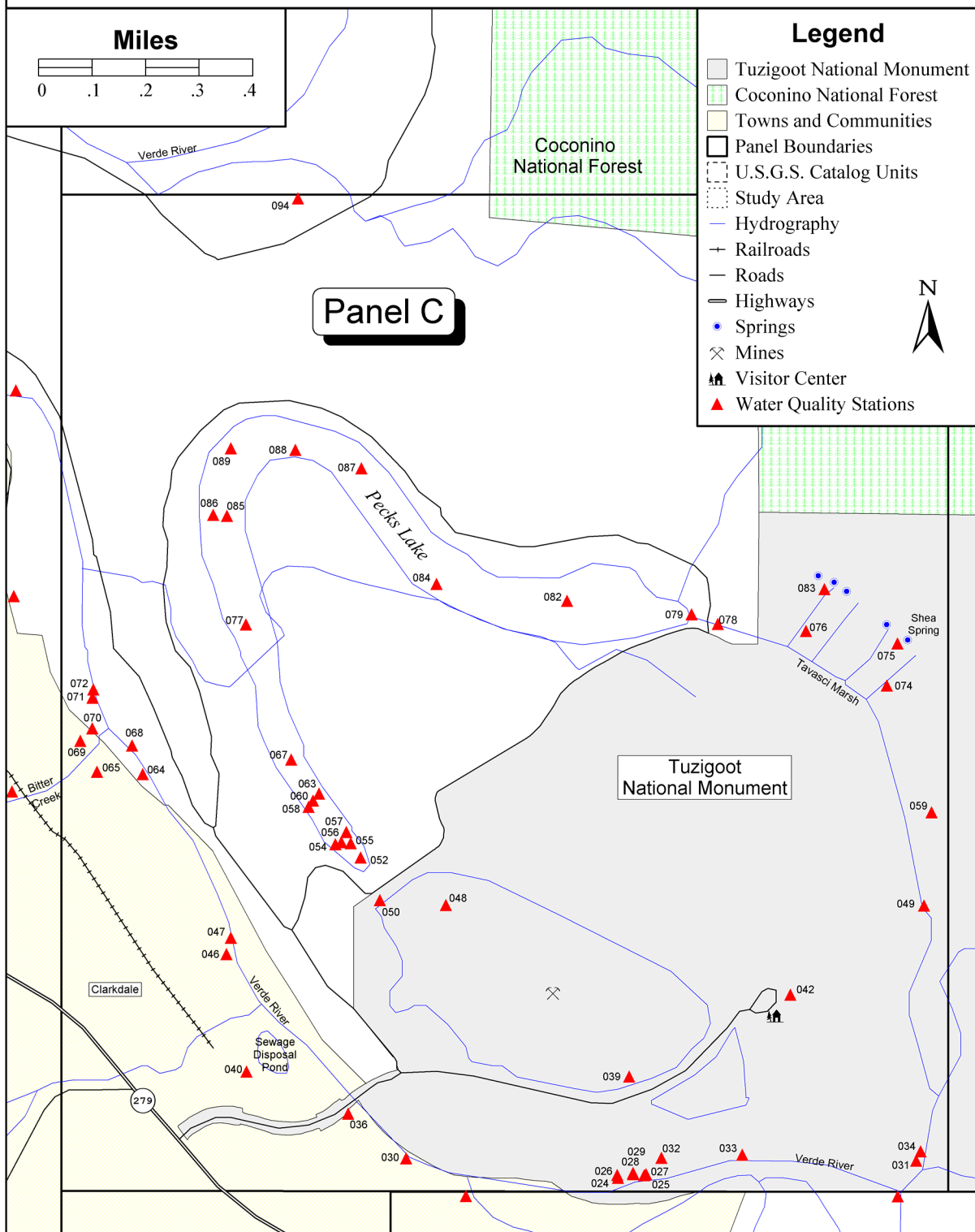
Tuzigoot National Monument

Water Quality Monitoring Locations



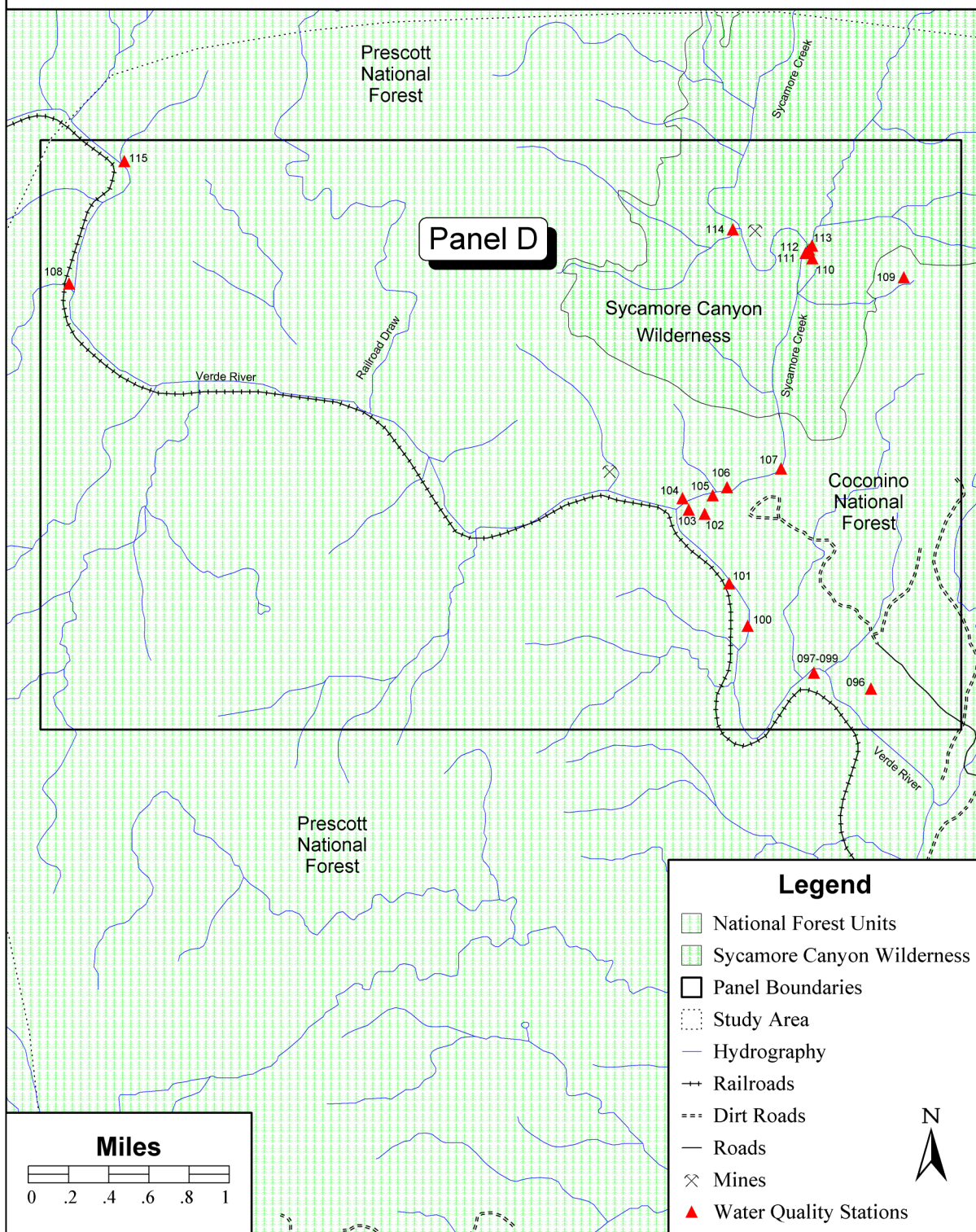
Tuzigoot National Monument

Water Quality Monitoring Locations



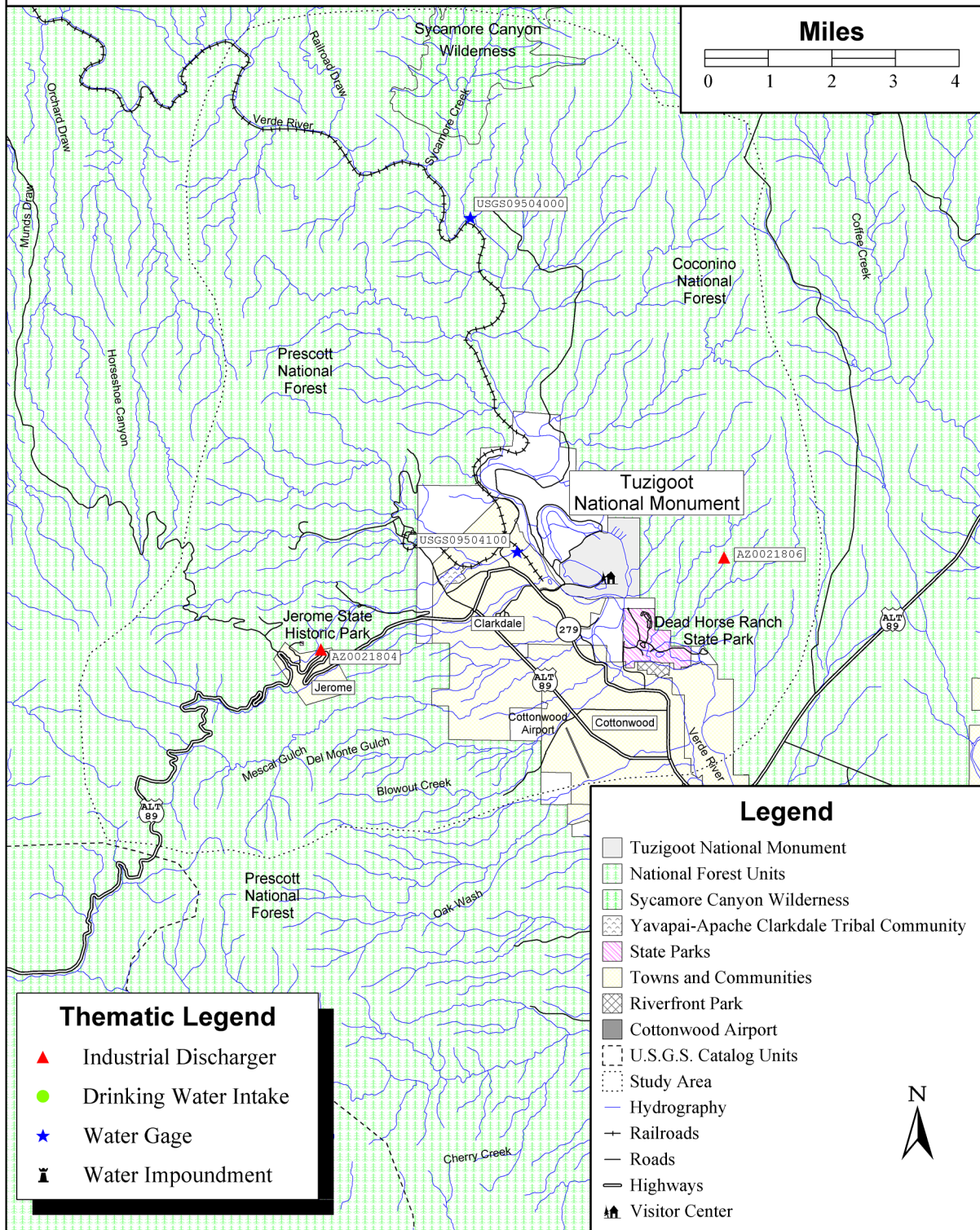
Tuzigoot National Monument

Water Quality Monitoring Locations



Tuzigoot National Monument

Dischargers, Drinking Intakes, Water Gages, & Water Impoundments



Industrial Facility Discharges, Drinking Water Intakes, Water Gages, and Water Impoundments Within the TUZI Study Area

Industrial Facility Discharges

<u>Site ID</u>	<u>Station/Facility Name</u>	<u>Address</u>	<u>City</u>	<u>Facility Receiving Water Name</u>
AZ0021804	JEROME, TOWN OF WWTP	JACOB LAKE WASTEWATER TRM	JEROME	UNNAMED EPHEMERAL WASH TO VERD
AZ0021806	BIG PARK IMP.DIST.	PRESCOTT	DRY BEAVER CREEK TO VERDE RIVE

Drinking Water Intakes

<u>Site ID</u>	<u>Station/Facility Name</u>	<u>City</u>	<u>Population Served</u>	<u>Avg. Daily Production (Gal./Day)</u>
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No drinking water intakes available for this study area.

Water Gages

<u>Site ID</u>	<u>Station Name</u>	<u>Site Type</u>	<u>Drainage Area (Square Miles)</u>	<u>Begin Year</u>	<u>End Year</u>
USGS09504000	VERDE RIVER NR CLARKDALE, ARIZ.	Stream	3503.00	1915	1997
USGS09504100	HULL CANYON NEAR JER	Stream	91.00		

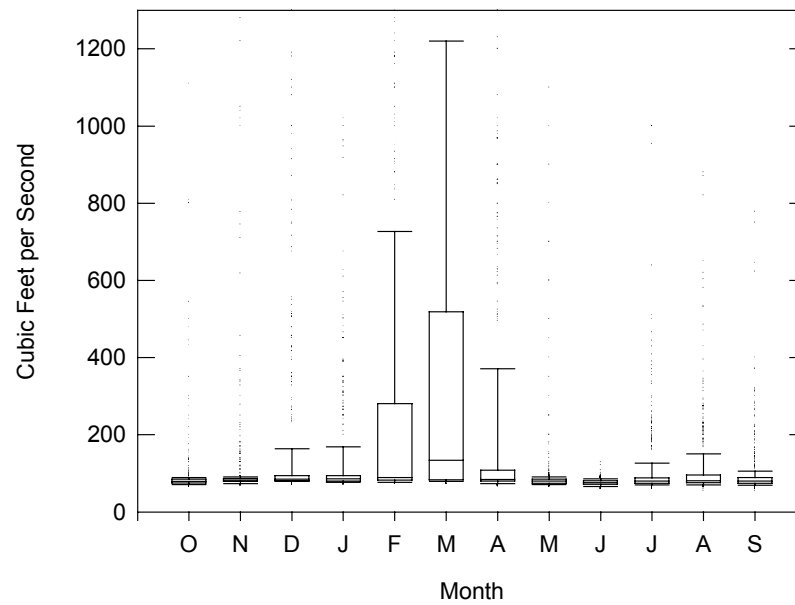
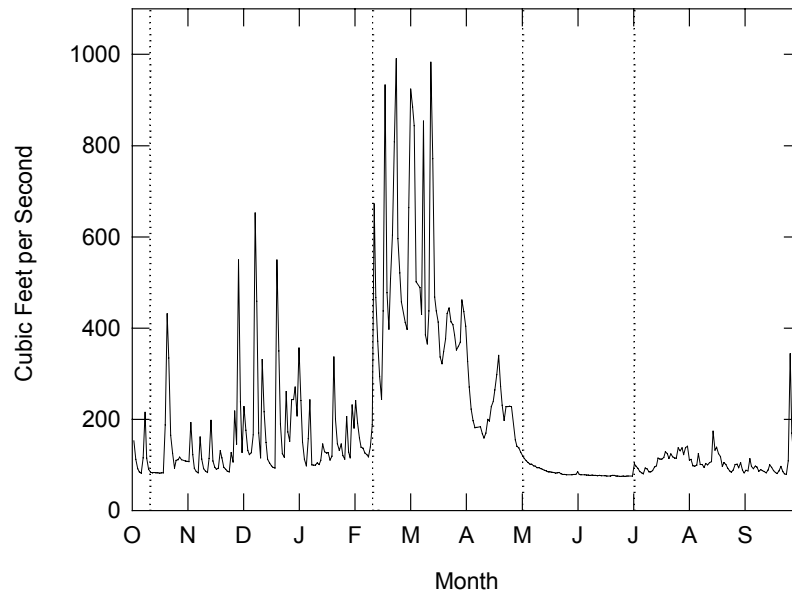
Water Impoundments

<u>Site ID</u>	<u>Impoundment Name</u>	<u>Owner</u>	<u>Primary Purpose</u>	<u>Type of Dam</u>	<u>Downstream Hazard</u>	<u>Year Completed</u>
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No water impoundments available for this study area.

REPRESENTATIVE MEAN ANNUAL HYDROGRAPH FOR SEASONAL ANALYSIS

TUZIGOOT NATIONAL MONUMENT
Verde River near Clarksdale, AZ
09504000, 33 year record



Representative mean annual hydrograph (top) and distribution of daily flows by month (bottom) for hydrologic season determination. Box and whiskers represent a five number summary; bottom whisker cap is 10th percentile, bottom of box is 25th percentile, internal line is median, top of box is 75th percentile, and top whisker is 90th percentile. Hydrologic seasons for Tuzigoot National Monument are: Oct. 10 to Feb. 9, Feb. 10 to Apr. 30, May 1 to Jun. 30, and Jul. 1 to Oct. 9.

CONTACTS FOR AGENCY CODES RETRIEVED FOR TUZI

<u>AGENCY</u>	<u>PRIMARY CONTACT NAME</u>	<u>ORGANIZATION</u>	<u>PHONE NUMBER(S)</u>
11NPSWRD	TUCKER, DEAN	NATIONAL PARK SERVICE	(970)225-3516 (970)225-3518
112WRD	BRIGGS, JOHN	US GEOLOGICAL SURVEY	(703)648-5624
21ARIZ	RANDALL, KRIS	ARIZONA DEPT ENV QUALITY	(602)207-4510
11TOX09	WILSON, ERIC	USEPA REGION 9 WTR-2	(415)744-1964
21AZG&F	HOOD, WAYNE	ARIZONA DEPT ENV QUALITY	(602)207-4416
113FORS3	SPANN, CHIC	US FOREST SERVICE	(505)842-3255
21AZRWTR	WILSON, ERIC	USEPA REGION 9 WTR-2	(415)744-1964

QUANTITY OF DATA RETRIEVED FOR TUZI BY AGENCY CODE
WITHIN THE ENTIRE STUDY AREA (S.A.) AND JUST WITHIN THE PARK

Agency	Organization	Period of Record		Water Quality Stations		Longer Term ¹ Stations		No Data Stations		Water Quality Observations		Water Quality Parameters	
		Study Area	Park Only	S.A.	Park	S.A.	Park	S.A.	Park	S.A.	Park	S.A.	Park
11NPSWRD	NATIONAL PARK SERVICE	03/23/78-08/04/93	07/08/78-08/04/93	55	16	0	0	0	0	1885	629	91	90
112WRD	US GEOLOGICAL SURVEY	10/10/51-07/23/96	08/18/59-06/12/79	29	3	1	0	2	0	10767	241	145	61
21ARIZ	ARIZONA DEPT ENV QUALITY	01/26/73-01/07/93	No Data in Park	25	0	7	0	0	0	6422	0	109	0
11TOX09	USEPA REGION 9 WTR-2	07/27/87-07/28/87	No Data in Park	2	0	0	0	0	0	435	0	305	0
21AZG&F	ARIZONA DEPT ENV QUALITY	07/19/79-04/30/80	10/31/79-10/31/79	2	1	0	0	0	0	84	17	23	17
113FORS3	US FOREST SERVICE	No Data in S.A.	No Data in Park	1	0	0	0	1	0	0	0	0	0
21AZRWTR	USEPA REGION 9 WTR-2	No Data in S.A.	No Data in Park	1	0	0	0	1	0	0	0	0	0
Totals		10/10/51-07/23/96	08/18/59-08/04/93	115	20	8	0	4	0	19593	887	490	122

¹Station With At Least 6 Parameters Having An Average of 1 Or More Observations Per Year During a Period of Record Extending At Least 2 Years.

Station Period of Record Tabulation From 10/10/51 To 07/23/96

Station Ident.	Location Description	In Park	Total Obs	01/01/85 to 07/23/96	01/01/75 to 12/31/84	Before 01/01/75
TUZI0001	NURE STATION WITHIN TEN MILES OF MONUMENT	No	22	0	22	0
TUZI0002	A-15-03 05BAA	No	95	38	57	0
TUZI0003	A-16-03 33DCD	No	20	0	20	0
TUZI0004	A-16-03 31DDC1	No	30	0	30	0
TUZI0005	A-16-03 31DCA	No	89	0	0	89
TUZI0006	A-16-03 31DCA	No	62	38	24	0
TUZI0007	NURE STATION WITHIN TEN MILES OF MONUMENT	No	22	0	22	0
TUZI0008	A-16-03 28DDDB	No	31	0	0	31
TUZI0009	VERDE RIVER AT DEAD HORSE RANCH RD CROSSING	No	141	141	0	0
TUZI0010	VERDE R. BELOW RIO VERDE CIRCLE FORD	No	196	0	196	0
TUZI0011	VERDE RIVER 0.5KM BELOW DEAD HORSE RANCH FORD	No	262	0	262	0
TUZI0012	VERDE RIVER ABOVE COTTONWOOD	No	262	0	262	0
TUZI0013	VERDE RIVER AT COTTONWOOD	No	308	308	0	0
TUZI0014	A-16-03 27DAB	No	139	38	54	47
TUZI0015	TAILINGS SEEPAGE AT JEROME	No	23	0	0	23
TUZI0016	A-16-03 27BAD	No	24	0	0	24
TUZI0017	VERDE RIVER DOWNSTREAM OF DIVERSION DITCH	No	48	48	0	0
TUZI0018	VERDE RIVER NEAR TUZIGOOT	No	73	0	0	73
TUZI0019	TRIB. OF BITTER CREEK BELOW DUMP OF U.V. MINE	No	24	24	0	0
TUZI0020	CONFLUENCE HOGPEN/SLAUGHTERHOUSE SPGS DRAINAGES	No	24	24	0	0
TUZI0021	A-16-02 14DAC	No	31	0	31	0
TUZI0022	VERDE RIVER BETWEEN DIVERSION AND AREA OF SEEP.	No	24	24	0	0
TUZI0023	VERDE RIVER 1 KM BELOW LEFT BANK SEEPS	No	45	45	0	0
TUZI0024	VERDE RIVER ALONG AREA OF SEEPAGE	Yes	24	24	0	0
TUZI0025	VERDE RIVER ALONG AREA OF SEEPAGE	Yes	48	48	0	0
TUZI0026	N ARM VERDE RIVER 60 M ABOVE LEFT BANK SEEPS	Yes	45	45	0	0
TUZI0027	SEEP ON LEFT BANK OF VERDE RIVER	Yes	42	42	0	0
TUZI0028	VERDE RIVER ALONG AREA OF SEEPAGE	Yes	24	24	0	0
TUZI0029	SEEP ON LEFT BANK OF VERDE RIVER	Yes	42	42	0	0
TUZI0030	VERDE RIVER UPSTREAM FROM DIVERSION DITCH	No	24	24	0	0
TUZI0031	TAVASCI MARSH WASH @ MOUTH NR CLARKDALE, AZ	Yes	29	0	29	0
TUZI0032	VERDE RIVER AT TUZIGOOT BRIDGE NR CLARKDALE, ARIZ	Yes	58	0	58	0
TUZI0033	N ARM VERDE RIVER 200 M BELOW LEFT BANK SEEPS	Yes	45	45	0	0
TUZI0034	DRAINAGE CHANNEL LEADING OUT OF TAVASCI MARSH	Yes	42	42	0	0
TUZI0035	SETTLING PONDS DOWNSTREAM FROM JOSEPHINE TUNNEL	No	24	24	0	0
TUZI0036	VERDE RIVER BELOW TUZIGOOT BRIDGE	No	365	0	365	0
TUZI0037	SETTLING PONDS DOWNSTREAM FROM JOSEPHINE TUNNEL	No	24	24	0	0
TUZI0038	SETTLING PONDS DOWNSTREAM FROM HOPEWELL TUNNEL	No	24	24	0	0
TUZI0039	TAILINGS POND SOUTH OF PECKS LAKE	Yes	24	24	0	0
TUZI0040	A-16-03 21CBB	No	27	0	0	27
TUZI0041	SETTLING PONDS DOWNSTREAM FROM HOPEWELL TUNNEL	No	24	24	0	0
TUZI0042	A-16-03 22BCC	Yes	154	0	22	132
TUZI0043	SEEPAGE PAST CLARKDALE ELKS LDGE	No	91	0	0	91
TUZI0044	RIGHT FORK BITTER CREEK	No	24	0	0	24
TUZI0045	TRIBUTARY TO BITTER CREEK	No	24	0	0	24
TUZI0046	VERDE RIVER ABOVE DECEPTION GULCH	No	374	0	240	134
TUZI0047	VERDE R. AT OLD BRIDGE SITE AT CLARKDALE, AZ.	No	36	0	36	0
TUZI0048	TAILINGS POND SOUTH OF PECKS LAKE	Yes	24	24	0	0
TUZI0049	DRAINAGE CHANNEL LEADING OUT OF TAVASCI MARSH	Yes	42	42	0	0
TUZI0050	POND AT FOOT OF DAM; SOUTHEAST OF DIRT ROAD	Yes	25	25	0	0
TUZI0051	BITTER CK ABV BRIDGE IN CLARKDALE	No	1669	1669	0	0
TUZI0052	PECKS LAKE 250 FEET NORTHWEST OF DIRT ROAD	No	50	50	0	0
TUZI0053	DOWNSTREAM FROM 300-LEVEL DUMP OF U.V. MINE	No	24	24	0	0
TUZI0054	WEST SHORE OF PECKS LAKE; NW OF DIRT ROAD	No	25	25	0	0
TUZI0055	PECKS LAKE NEAR TAILINGS POND DAM	No	24	24	0	0
TUZI0056	CENTER OF PECKS LAKE 600 FEET NW OF DIRT ROAD	No	25	25	0	0
TUZI0057	EAST SHORE OF PECKS LAKE NW OF DIRT ROAD	No	25	25	0	0
TUZI0058	WEST SHORE OF PECKS LAKE NW OF DIRT ROAD	No	25	25	0	0
TUZI0059	SOUTHERN AREA OF TAVASCI MARSH	Yes	45	45	0	0
TUZI0060	CENTER OF PECKS LAKE 1000 FEET NW OF DIRT ROAD	No	25	25	0	0
TUZI0061	BITTER CK AB RAILROAD BRIDGE AT CLARKDALE AZ	No	31	0	31	0
TUZI0062	"NO INFORMATION IN THE STATION HEADER FILE."	No	0	0	0	0
TUZI0063	EAST SHORE OF PECKS LAKE NW OF DIRT ROAD	No	25	25	0	0
TUZI0064	VERDE RIVER DOWNSTREAM OF BITTER CREEK	No	24	24	0	0
TUZI0065	BITTER CREEK NEAR MOUTH	No	70	0	23	47
TUZI0066	BITTER CREEK NEAR CEMENT PLANT BRIDGE	No	446	0	446	0
TUZI0067	CENTER OF PECKS LAKE 1500 FEET NW OF DIRT ROAD	No	71	71	0	0
TUZI0068	VERDE RIVER BELOW BITTER CREEK	No	387	0	387	0
TUZI0069	BITTER CK ABV VERDE RV CONFLUENCE CLARKDALE	No	184	184	0	0
TUZI0070	BITTER CREEK NEAR THE VERDE RIVER	No	386	0	386	0
TUZI0071	VERDE RIVER ABOVE BITTER CREEK	No	513	0	459	54

Station Period of Record Tabulation From 10/10/51 To 07/23/96

Station Ident.	Location Description	In Park	Total Obs	01/01/85 to 07/23/96	01/01/75 to 12/31/84	Before 01/01/75
TUZI0072	VERDE RIVER UPSTREAM OF BITTER CREEK	No	23	23	0	0
TUZI0073	BITTER CREEK UPSTREAM OF CLARKDALE BOUNDARY	No	48	48	0	0
TUZI0074	CENTRAL AREA OF TAVASCI MARSH	Yes	90	90	0	0
TUZI0075	NURE STATION WITHIN TEN MILES OF MONUMENT	Yes	21	0	21	0
TUZI0076	NORTHERN AREA OF TAVASCI MARSH	Yes	46	46	0	0
TUZI0077	CENTER OF PECKS LAKE 3000 FEET NW OF DIRT ROAD	No	48	48	0	0
TUZI0078	DRAINAGE CHANNEL LEADING TO TAVASCI MARSH	No	25	25	0	0
TUZI0079	PECKS LAKE AT EASTERNMOST POINT; WEST OF ROAD	No	91	91	0	0
TUZI0080	TRIB NEAR CEMENT PLANT DRAINING TO BITTER CK	No	24	24	0	0
TUZI0081	A-16-03 17DBC	No	33	0	33	0
TUZI0082	CENTER OF PECKS LAKE 1500 FEET SE OF SITE #18	No	42	42	0	0
TUZI0083	PECKS SPRING	Yes	17	0	17	0
TUZI0084	CENTER OF PECKS LAKE 1500 FEET SE OF SITE #17	No	48	48	0	0
TUZI0085	PECKS LAKE	No	17	0	0	17
TUZI0086	NORTHWESTERN REGION OF PECKS LAKE	No	24	24	0	0
TUZI0087	CENTER OF PECKS LAKE 1500 FEET SE OF SITE #16	No	48	48	0	0
TUZI0088	PECKS LAKE	No	67	0	67	0
TUZI0089	CENTER OF PECKS LAKE NEAR NORTHERNMOST REACH	No	48	48	0	0
TUZI0090	VERDE R 0.65 MI AB BITTER CK AT CLARKDALE AZ	No	31	0	31	0
TUZI0091	"NO INFORMATION IN THE STATION HEADER FILE."	No	0	0	0	0
TUZI0092	VERDE RIVER DOWNSTREAM OF SLAG HEAP	No	23	23	0	0
TUZI0093	VERDE RIVER UPSTREAM OF SLAG HEAP	No	24	24	0	0
TUZI0094	VERDE RIVER AT TAPCO	No	7	0	0	7
TUZI0095	VERDE RIVER UPSTREAM OF SLAG HEAP	No	24	24	0	0
TUZI0096	VERDE RIVER BELOW SYCAMORE CREEK NR CLARKDALE	No	273	273	0	0
TUZI0097	VERDE RIVER ABOVE CLARKDALE	No	106	0	77	29
TUZI0098 ¹	VERDE RIVER NR CLARKDALE, ARIZ.	No	9556	5996	3560	0
TUZI0099	VERDE RIVER AT USGS 095040	No	127	127	0	0
TUZI0100	VERDE R 1 KM BELOW CONFLUENCE WITH SYCAMORE CR	No	113	0	96	17
TUZI0101	VERDE RIVER BLW SYCAMORE CR	No	28	28	0	0
TUZI0102 ¹	VERDE RIVER ABOVE SYCAMORE CREEK	No	198	0	92	106
TUZI0103	SYCAMORE CREEK AT MOUTH	No	30	0	30	0
TUZI0104	SYCAMORE CR	No	27	27	0	0
TUZI0105	NURE STATION WITHIN TEN MILES OF MONUMENT	No	22	0	22	0
TUZI0106 ¹	SYCAMORE CREEK AT MOUTH	No	218	0	88	130
TUZI0107	SYCAMORE CREEK ABOVE PACKARD RNH	No	0	0	0	0
TUZI0108	VERDE RIVER BLW MORMON POCKET	No	29	29	0	0
TUZI0109	A-17-03 05DBD	No	39	0	0	39
TUZI0110	NURE STATION WITHIN TEN MILES OF MONUMENT	No	22	0	22	0
TUZI0111	A-17-03 05D UNSURV	No	41	0	0	41
TUZI0112	A-17-03 05D UNSURV	No	47	11	0	36
TUZI0113	SYCAMORE CR. (WILDERNESS) AZ/NM MOUNTAINS	No	0	0	0	0
TUZI0114	A-17-03 05C UNSURV	No	20	0	0	20
TUZI0115	A-17-02 03AAA	No	30	0	30	0

¹Longer Term Station With At Least 6 Parameters Having An Average of 1 Or More Observations Per Year During a Period of Record Extending At Least 2 Years.

**Parameter Period of Record Tabulation
From 10/10/51 To 07/23/96**

Parameter Code	Name	Total Obs	01/01/85 to 07/23/96	01/01/75 to 12/31/84	Before 01/01/75	Stations	
						Total	Park
00004	STREAM WIDTH (FEET)	127	127	0	0	3	0
00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	25	0	13	12	17	1
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	451	171	220	60	62	9
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	1	0	1	0	1	0
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	289	158	130	1	19	0
00025	BAROMETRIC PRESSURE (MM OF HG)	114	102	12	0	4	0
00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	139	109	27	3	9	0
00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	222	109	90	23	27	3
00049	SURFACE AREA IN SQUARE MILES	41	0	41	0	1	0
00055	VELOCITY, STREAM FT/SEC	37	37	0	0	4	0
00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	3	1	0	2	3	0
00061	FLOW, STREAM, INSTANTANEOUS CFS	272	121	136	15	27	4
00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	100	100	0	0	1	0
00064	DEPTH OF STREAM, MEAN (FT)	38	38	0	0	4	0
00065	STAGE, STREAM (FEET)	121	108	13	0	3	0
00070	TURBIDITY, (JACKSON CANDLE UNITS)	57	0	36	21	11	2
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	215	100	114	1	13	0
00078	TRANSPARENCY, SECCHI DISC (METERS)	1	0	1	0	1	0
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	161	61	92	8	22	4
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	356	155	144	57	59	8
00300	OXYGEN, DISSOLVED MG/L	371	159	188	24	35	4
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	85	75	10	0	9	2
00310	BOD, 5 DAY, 20 DEG C MG/L	17	0	10	7	9	0
00335	COD, .025N K2CR2O7 MG/L	1	0	1	0	1	0
00340	COD, .25N K2CR2O7 MG/L	135	98	37	0	1	0
00400	PH (STANDARD UNITS)	328	109	205	14	41	5
00403	PH, LAB, STANDARD UNITS SU	273	155	84	34	36	4
00405	CARBON DIOXIDE (MG/L AS CO2)	65	0	53	12	19	4
00406	PH, FIELD, STANDARD UNITS SU	57	57	0	0	9	4
00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	289	100	132	57	57	9
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	96	45	51	0	22	4
00417	ALKALINITY, FIXED ENDPOINT TITRATION, USGS LAB MG/L	1	1	0	0	1	0
00419	ALKALINITY, CARBONATE, INCREMENTAL TITR FIELD MG/L	2	2	0	0	1	0
00440	BICARBONATE ION (MG/L AS HCO3)	143	66	54	23	30	7
00445	CARBONATE ION (MG/L AS CO3)	132	65	50	17	27	7
00447	CARBONATE, INCREMENTAL TITRATION, (CO3) FIELD MG/L	1	1	0	0	1	0
00450	BICARBONATE, INCREMENTAL TITRATION, (HCO3) FIELD MG/L	1	1	0	0	1	0
00452	CARBONATE, WATER, DISS, INCR TIT, FIELD, AS CO3, MG/L	104	104	0	0	3	0
00453	BICARBONATE, WATER, DISS, INCR TIT, FIELD, AS HCO3, MG/L	105	105	0	0	4	0
00500	RESIDUE, TOTAL (MG/L)	38	0	38	0	11	0
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C), MG/L	38	0	14	24	12	0
00520	RESIDUE, VOLATILE FILTRABLE (MG/L)	4	0	4	0	2	1
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	212	162	49	1	22	4
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	6	0	6	0	3	0
00572	BIOMASS, PERIPHYTON (GRAMS PER SQUARE METER)	1	0	1	0	1	0
00573	BIOMASS, PERIPHYTON, DRY WEIGHT TOTAL (G/M2)	1	0	1	0	1	0
00600	NITROGEN, TOTAL (MG/L AS N)	131	0	131	0	11	1
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	1	0	1	0	1	0
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	4	4	0	0	4	0
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	137	131	6	0	11	5
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	6	4	2	0	5	0
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	100	32	49	19	20	0
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	8	0	2	6	5	0
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	2	0	2	0	1	0
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	359	145	193	21	28	5
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	281	135	146	0	19	5
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	66	4	62	0	14	2
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	120	0	95	25	22	1
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	57	0	57	0	10	1
00665	PHOSPHORUS, TOTAL (MG/L AS P)	252	143	109	0	19	5
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	5	0	5	0	5	1
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	64	4	60	0	12	1
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	70	0	70	0	2	1
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	45	0	42	3	5	1
00900	HARDNESS, TOTAL (MG/L AS CaCO3)	235	46	138	51	54	8
00902	HARDNESS, NON-CARBONATE (MG/L AS CaCO3)	81	0	65	16	21	3
00915	CALCIUM, DISSOLVED (MG/L AS Ca)	255	107	97	51	44	4
00916	CALCIUM, TOTAL (MG/L AS Ca)	115	61	54	0	36	10
00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS Ca DRY WGT)	51	51	0	0	45	11
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	51	51	0	0	45	11
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	255	107	97	51	44	4

Parameter Period of Record Tabulation **From 10/10/51 To 07/23/96**

Parameter Code	Name	Total Obs	01/01/85 to 07/23/96	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Park
00927	MAGNESIUM, TOTAL (MG/L AS MG)	113	61	52	0	35	9
00929	SODIUM, TOTAL (MG/L AS NA)	115	61	54	0	36	10
00930	SODIUM, DISSOLVED (MG/L AS NA)	224	107	75	42	38	4
00931	SODIUM ADSORPTION RATIO	79	0	66	13	20	3
00932	SODIUM, PERCENT	74	0	61	13	20	3
00933	SODIUM,PLUS POTASSIUM (MG/L)	17	0	8	9	12	2
00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	47	47	0	0	42	9
00935	POTASSIUM, DISSOLVED (MG/L AS K)	174	107	63	4	17	3
00937	POTASSIUM, TOTAL MG/L AS K)	83	61	22	0	31	10
00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	50	50	0	0	44	11
00939	POTASSIUM,TOTAL RECOVERABLE IN WATER AS K MG/L	1	0	1	0	1	0
00940	CHLORIDE,TOTAL IN WATER MG/L	360	152	151	57	54	8
00945	SULFATE, TOTAL (MG/L AS SO4)	416	150	215	51	54	8
00946	SULFATE, DISSOLVED (MG/L AS SO4)	6	0	6	0	6	1
00950	FLUORIDE, DISSOLVED (MG/L AS F)	203	107	65	31	33	3
00951	FLUORIDE, TOTAL (MG/L AS F)	79	45	34	0	22	4
00955	SILICA, DISSOLVED (MG/L AS SI02)	84	7	64	13	25	3
00956	SILICA, TOTAL (MG/L AS SI02)	7	0	7	0	7	0
00966	MICA IN DRILLING FLUIDS LB/BARREL	1	0	1	0	1	0
00997	ARSENIC, INORGANIC TOT (UG/L AS AS)	20	0	3	17	11	0
01000	ARSENIC, DISSOLVED (UG/L AS AS)	169	110	59	0	24	1
01002	ARSENIC, TOTAL (UG/L AS AS)	268	162	101	5	42	11
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	55	52	3	0	49	11
01005	BARIUM, DISSOLVED (UG/L AS BA)	116	114	2	0	10	0
01007	BARIUM, TOTAL (UG/L AS BA)	103	61	42	0	22	10
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	51	51	0	0	45	11
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	19	17	2	0	4	0
01012	BERYLLIUM, TOTAL (UG/L AS BE)	92	92	0	0	22	9
01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	48	48	0	0	43	9
01020	BORON, DISSOLVED (UG/L AS B)	170	104	61	5	15	3
01021	BORON, SUSPENDE (UG/L AS B)	7	0	7	0	1	0
01022	BORON, TOTAL (UG/L AS B)	108	54	54	0	10	5
01025	CADMIUM, DISSOLVED (UG/L AS CD)	162	107	55	0	18	1
01026	CADMIUM, SUSPENDE (UG/L AS CD)	4	1	3	0	3	0
01027	CADMIUM, TOTAL (UG/L AS CD)	343	161	161	21	45	10
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	57	49	8	0	47	11
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	60	52	8	0	50	11
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	164	107	57	0	6	0
01032	CHROMIUM, HEXA VALENT (UG/L AS CR)	37	3	34	0	10	0
01034	CHROMIUM, TOTAL (UG/L AS CR)	298	160	117	21	44	10
01035	COBALT, DISSOLVED (UG/L AS CO)	2	0	2	0	2	0
01037	COBALT, TOTAL (UG/L AS CO)	15	15	0	0	12	5
01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	47	47	0	0	42	9
01040	COPPER, DISSOLVED (UG/L AS CU)	163	109	54	0	21	1
01042	COPPER, TOTAL (UG/L AS CU)	336	160	150	26	45	10
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	60	52	8	0	50	11
01044	IRON, SUSPENDE (UG/L AS FE)	7	1	6	0	2	0
01045	IRON, TOTAL (UG/L AS FE)	293	160	101	32	47	11
01046	IRON, DISSOLVED (UG/L AS FE)	226	110	116	0	30	3
01047	IRON, FERROUS (UG/L AS FE)	1	0	1	0	1	0
01049	LEAD, DISSOLVED (UG/L AS PB)	190	110	80	0	17	0
01050	LEAD, SUSPENDE (UG/L AS PB)	1	0	1	0	1	0
01051	LEAD, TOTAL (UG/L AS PB)	276	156	99	21	42	7
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	60	52	8	0	50	11
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	51	51	0	0	45	11
01054	MANGANESE, SUSPENDE (UG/L AS MN)	7	0	7	0	1	0
01055	MANGANESE, TOTAL (UG/L AS MN)	264	160	96	8	41	11
01056	MANGANESE, DISSOLVED (UG/L AS MN)	182	110	72	0	22	1
01057	THALLIUM, DISSOLVED (UG/L AS TL)	12	12	0	0	1	0
01059	THALLIUM, TOTAL (UG/L AS TL)	67	67	0	0	22	9
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10	3	7	0	10	1
01065	NICKEL, DISSOLVED (UG/L AS NI)	17	17	0	0	2	0
01067	NICKEL, TOTAL (UG/L AS NI)	93	93	0	0	22	9
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	51	51	0	0	45	11
01069	NICKEL, TOTAL IN FISH OR ANIMALS-WET WEIGHT MG/KG	1	1	0	0	1	0
01072	PHOSPHORUS, DISS, SPECTROGRAPH METH (UG/L AS P)	1	0	1	0	1	0
01073	THALLIUM,TISSUE,WET WEIGHT,MG/KG	1	1	0	0	1	0
01075	SILVER, DISSOLVED (UG/L AS AG)	112	107	5	0	6	0
01077	SILVER, TOTAL (UG/L AS AG)	154	62	71	21	44	10
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	52	52	0	0	46	11
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	11	9	2	0	10	0

**Parameter Period of Record Tabulation
From 10/10/51 To 07/23/96**

Parameter Code	Name	Total Obs	01/01/85 to 07/23/96	01/01/75 to 12/31/84	Before 01/01/75	Stations	
						Total	Park
01081	STRONTIUM, SUSPENDED (UG/L AS SR)	15	15	0	0	12	5
01082	STRONTIUM, TOTAL (UG/L AS SR)	5	5	0	0	1	0
01085	VANADIUM, DISSOLVED (UG/L AS V)	10	3	7	0	10	1
01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	50	50	0	0	44	11
01090	ZINC, DISSOLVED (UG/L AS ZN)	183	110	73	0	21	1
01092	ZINC, TOTAL (UG/L AS ZN)	306	161	130	15	42	11
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	60	52	8	0	50	11
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	17	17	0	0	2	0
01097	ANTIMONY, TOTAL (UG/L AS SB)	85	85	0	0	16	4
01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	32	32	0	0	29	7
01099	ANTIMONY, TISSUE, WET WEIGHT, MG/KG	1	1	0	0	1	0
01105	ALUMINUM, TOTAL (UG/L AS AL)	20	20	0	0	17	9
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	7	0	7	0	7	1
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	51	51	0	0	45	11
01130	LITHIUM, DISSOLVED (UG/L AS LI)	10	3	7	0	10	1
01140	SILICON, DISSOLVED (UG/L AS SI)	5	0	5	0	5	1
01145	SELENIUM, DISSOLVED (UG/L AS SE)	127	110	17	0	16	0
01147	SELENIUM, TOTAL (UG/L AS SE)	309	156	149	4	34	5
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	48	48	0	0	43	9
01149	SELENIUM, TOTAL IN FISH OR ANIMALS WET WGT MG/KG	1	1	0	0	1	0
01150	TITANIUM, DISSOLVED (UG/L AS TI)	5	0	5	0	5	1
01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	50	50	0	0	44	10
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	59	51	8	0	49	11
04133	MERCURY, BED MAT, DRY WT, SEDIMENT,	51	51	0	0	45	11
07000	TRITIUM (1H3), TOTAL (PICOCURIES/LITER)	1	1	0	0	1	0
22703	URANIUM, NATURAL, DISSOLVED	4	0	4	0	4	0
31501	COLIFORM, TOT, MEMBRANE FILTER, IMMED. M-ENDO MED, 35C	1	0	1	0	1	0
31613	FECAL COLIFORM, MEMBR FILTER, M-FC AGAR, 44.5C, 24HR	102	9	93	0	11	0
31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	28	0	12	16	12	0
31625	FECAL COLIFORM, MF, M-FC, 0.7 UM	161	95	66	0	2	1
31633	E. COLI, THERMOTOL, MF, M-TEC, IN SITU UREASE #/100ML	5	5	0	0	1	0
31673	FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	201	102	99	0	13	1
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	70	0	70	0	2	1
34200	ACENAPHTHYLENE TOTWUG/L	2	2	0	0	2	0
34203	ACENAPHTHYLENE DRY WGTBOTUG/KG	1	1	0	0	1	0
34204	ACENAPHTHYLENE WET WGT TISMG/KG	2	2	0	0	2	0
34205	ACENAPHTHENE TOTWUG/L	2	2	0	0	2	0
34208	ACENAPHTHENE DRY WGTBOTUG/KG	1	1	0	0	1	0
34209	ACENAPHTHENE WET WGT TISMG/KG	2	2	0	0	2	0
34223	ANTHRACENE DRY WGTBOTUG/KG	1	1	0	0	1	0
34224	ANTHRACENE WET WGT TISMG/KG	2	2	0	0	2	0
34230	BENZO(B)FLUORANTHENE, WHOLE WATER, UG/L	2	2	0	0	2	0
34233	BENZO(B)FLUORANTHENE, SEDIMENTS, DRY WGT, UG/KG	1	1	0	0	1	0
34234	BENZO(B)FLUORANTHENE, TISSUE, WET WGT, MG/KG	2	2	0	0	2	0
34242	BENZO(K)FLUORANTHENE, TOTAL, WATER UG/L	2	2	0	0	2	0
34245	BENZO(K)FLUORANTHENE, DRY WT, SEDIMENT UG/KG	1	1	0	0	1	0
34246	BENZO(K)FLUORANTHENE, WET WT, TISSUE MG/KG	2	2	0	0	2	0
34247	BENZO-A-PYRENE TOTWUG/L	2	2	0	0	2	0
34250	BENZO-A-PYRENE DRY WGTBOTUG/KG	1	1	0	0	1	0
34251	BENZO-A-PYRENE WET WGT TISMG/KG	2	2	0	0	2	0
34252	BERYLLIUM WET WGT TISMG/KG	1	1	0	0	1	0
34257	B-BHC-BETA DRY WGTBOTUG/KG	1	1	0	0	1	0
34258	B-BHC-BETA WET WGT TISMG/KG	1	1	0	0	1	0
34259	DELTA BENZENE HEXACHLORIDE TOTWUG/L	1	1	0	0	1	0
34262	DELTA BENZENE HEXACHLORIDE DRY WGTBOTUG/KG	1	1	0	0	1	0
34263	DELTA BENZENE HEXACHLORIDE WET WGT TISMG/KG	1	1	0	0	1	0
34273	BIS (2-CHLOROETHYL) ETHER TOTWUG/L	2	2	0	0	2	0
34276	BIS (2-CHLOROETHYL) ETHER DRY WGTBOTUG/KG	1	1	0	0	1	0
34277	BIS (2-CHLOROETHYL) ETHER WET WGT TISMG/KG	2	2	0	0	2	0
34278	BIS (2-CHLOROETHOXY) METHANE TOTWUG/L	2	2	0	0	2	0
34281	BIS (2-CHLOROETHOXY) METHANE DRY WGTBOTUG/KG	1	1	0	0	1	0
34282	BIS (2-CHLOROETHOXY) METHANE WET WGT TISMG/KG	2	2	0	0	2	0
34286	BIS (2-CHLOROISOPROPYL) ETHER DRY WGTBOTUG/KG	1	1	0	0	1	0
34287	BIS (2-CHLOROISOPROPYL) ETHER WET WGT TISMG/KG	2	2	0	0	2	0
34292	N-BUTYL BENZYL PHTHALATE, WHOLE WATER, UG/L	2	2	0	0	2	0
34293	N-BUTYL BENZYL PHTHALATE, DISSOLVED, UG/L	2	2	0	0	2	0
34295	N-BUTYL BENZYL PHTHALATE, SEDIMENTS, DRY WGT, UG/KG	1	1	0	0	1	0
34296	N-BUTYL BENZYL PHTHALATE, TISSUE, WET WGT, MG/KG	2	2	0	0	2	0
34320	CHRYSENE TOTWUG/L	2	2	0	0	2	0
34323	CHRYSENE DRY WGTBOTUG/KG	1	1	0	0	1	0
34324	CHRYSENE WET WGT TISMG/KG	2	2	0	0	2	0

**Parameter Period of Record Tabulation
From 10/10/51 To 07/23/96**

Parameter Code	Name	Total Obs	01/01/85 to 07/23/96	01/01/75 to 12/31/84	Before 01/01/75	Stations	
						Total	Park
34336	DIETHYL PHTHALATE TOTWUG/L	2	2	0	0	2	0
34339	DIETHYL PHTHALATE DRY WGTBOTUG/KG	1	1	0	0	1	0
34340	DIETHYL PHTHALATE WET WGTTISMG/KG	2	2	0	0	2	0
34341	DIMETHYL PHTHALATE TOTWUG/L	2	2	0	0	2	0
34344	DIMETHYL PHTHALATE DRY WGTBOTUG/KG	1	1	0	0	1	0
34345	DIMETHYL PHTHALATE WET WGTTISMG/KG	2	2	0	0	2	0
34351	ENDOSULFAN SULFATE TOTWUG/L	1	1	0	0	1	0
34354	ENDOSULFAN SULFATE DRY WGTBOTUG/KG	1	1	0	0	1	0
34355	ENDOSULFAN SULFATE WET WGTTISMG/KG	1	1	0	0	1	0
34356	ENDOSULFAN, BETA TOTWUG/L	1	1	0	0	1	0
34359	ENDOSULFAN, BETA DRY WGTBOTUG/KG	1	1	0	0	1	0
34361	ENDOSULFAN, ALPHA TOTWUG/L	3	3	0	0	2	0
34364	ENDOSULFAN, ALPHA DRY WGTBOTUG/KG	1	1	0	0	1	0
34365	ENDOSULFAN, ALPHA WET WGTTISMG/KG	1	1	0	0	1	0
34376	FLUORANTHENE TOTWUG/L	2	2	0	0	2	0
34379	FLUORANTHENE DRY WGTBOTUG/KG	1	1	0	0	1	0
34380	FLUORANTHENE WET WGTTISMG/KG	2	2	0	0	2	0
34384	FLUORENE DRY WGTBOTUG/KG	1	1	0	0	1	0
34385	FLUORENE WET WGTTISMG/KG	2	2	0	0	2	0
34386	HEXACHLOROCYCLOPENTADIENE TOTWUG/L	2	2	0	0	2	0
34389	HEXACHLOROCYCLOPENTADIENE DRY WGTBOTUG/KG	1	1	0	0	1	0
34390	HEXACHLOROCYCLOPENTADIENE WET WGTTISMG/KG	2	2	0	0	2	0
34391	HEXACHLOROBUTADIENE TOTWUG/L	2	2	0	0	2	0
34395	HEXACHLOROBUTADIENE WET WGTTISMG/KG	2	2	0	0	2	0
34396	HEXACHLOROETHANE TOTWUG/L	2	2	0	0	2	0
34399	HEXACHLOROETHANE DRY WGTBOTUG/KG	1	1	0	0	1	0
34400	HEXACHLOROETHANE WET WGTTISMG/KG	2	2	0	0	2	0
34403	INDENO (1,2,3-CD) PYRENE TOTWUG/L	2	2	0	0	2	0
34406	INDENO (1,2,3-CD) PYRENE DRY WGTBOTUG/KG	1	1	0	0	1	0
34407	INDENO (1,2,3-CD) PYRENE WET WGTTISMG/KG	2	2	0	0	2	0
34408	ISOPHORONE TOTWUG/L	2	2	0	0	2	0
34411	ISOPHORONE DRY WGTBOTUG/KG	1	1	0	0	1	0
34412	ISOPHORONE WET WGTTISMG/KG	2	2	0	0	2	0
34420	METHYL CHLORIDE SUSPUG/L	2	2	0	0	2	0
34428	N-NITROSODI-N-PROPYLAMINE TOTWUG/L	2	2	0	0	2	0
34431	N-NITROSODI-N-PROPYLAMINE DRY WGTBOTUG/KG	1	1	0	0	1	0
34432	N-NITROSODI-N-PROPYLAMINE WET WGTTISMG/KG	2	2	0	0	2	0
34433	N-NITROSODIPHENYLAMINE TOTWUG/L	2	2	0	0	2	0
34436	N-NITROSODIPHENYLAMINE DRY WGTBOTUG/KG	1	1	0	0	1	0
34437	N-NITROSODIPHENYLAMINE WET WGTTISMG/KG	2	2	0	0	2	0
34445	NAPHTHALENE DRY WGTBOTUG/KG	1	1	0	0	1	0
34446	NAPHTHALENE WET WGTTISMG/KG	2	2	0	0	2	0
34447	NITROBENZENE TOTWUG/L	2	2	0	0	2	0
34450	NITROBENZENE DRY WGTBOTUG/KG	1	1	0	0	1	0
34451	NITROBENZENE WET WGTTISMG/KG	2	2	0	0	2	0
34461	PHENANTHRENE TOTWUG/L	2	2	0	0	2	0
34464	PHENANTHRENE DRY WGTBOTUG/KG	1	1	0	0	1	0
34465	PHENANTHRENE WET WGTTISMG/KG	2	2	0	0	2	0
34468	PHENOL WET WGTTISMG/KG	2	2	0	0	2	0
34469	PYRENE TOTWUG/L	2	2	0	0	2	0
34472	PYRENE DRY WGTBOTUG/KG	1	1	0	0	1	0
34473	PYRENE WET WGTTISMG/KG	2	2	0	0	2	0
34474	SILVER WET WGTTISMG/KG	1	1	0	0	1	0
34480	THALLIUM DRY WGTBOTMG/KG	1	1	0	0	1	0
34521	BENZO(GH)PERYLENE1,12-BENZOPERYLENE TOTWUG/L	2	2	0	0	2	0
34524	BENZO(GH)PERYLENE1,12-BENZOPERYLENDRY WGTBOTUG/KG	1	1	0	0	1	0
34525	BENZO(GH)PERYLENE1,12-BENZOPERYLENWET WGTTISMG/KG	2	2	0	0	2	0
34526	BENZO(A)ANTHRACENE1,2-BENZANTHRACENE TOTWUG/L	2	2	0	0	2	0
34529	BENZO(A)ANTHRACENE1,2-BENZANTHRACENDRY WGTBOTUG/KG	1	1	0	0	1	0
34530	BENZO(A)ANTHRACENE1,2-BENZANTHRACENWET WGTTISMG/KG	2	2	0	0	2	0
34536	1,2-DICHLOROBENZENE TOTWUG/L	2	2	0	0	2	0
34539	1,2-DICHLOROBENZENE DRY WGTBOTUG/KG	1	1	0	0	1	0
34540	1,2-DICHLOROBENZENE WET WGTTISMG/KG	2	2	0	0	2	0
34551	1,2,4-TRICHLOROBENZENE TOTWUG/L	2	2	0	0	2	0
34554	1,2,4-TRICHLOROBENZENE DRY WGTBOTUG/KG	1	1	0	0	1	0
34555	1,2,4-TRICHLOROBENZENE WET WGTTISMG/KG	2	2	0	0	2	0
34556	1,2,5,6-DIBENZANTHRACENE TOTWUG/L	2	2	0	0	2	0
34559	1,2,5,6-DIBENZANTHRACENE DRY WGTBOTUG/KG	1	1	0	0	1	0
34566	1,3-DICHLOROBENZENE TOTWUG/L	2	2	0	0	2	0
34569	1,3-DICHLOROBENZENE DRY WGTBOTUG/KG	1	1	0	0	1	0
34570	1,3-DICHLOROBENZENE WET WGTTISMG/KG	2	2	0	0	2	0

**Parameter Period of Record Tabulation
From 10/10/51 To 07/23/96**

Parameter Code	Name	Total Obs	01/01/85 to 07/23/96	01/01/75 to 12/31/84	Before 01/01/75	Stations	
						Total	Park
34571	1,4-DICHLOROBENZENE TOTWUG/L	2	2	0	0	2	0
34574	1,4-DICHLOROBENZENE DRY WGTBOTUG/KG	1	1	0	0	1	0
34575	1,4-DICHLOROBENZENE WET WGTISMG/KG	2	2	0	0	2	0
34581	2-CHLORONAPHTHALENE TOTWUG/L	2	2	0	0	2	0
34584	2-CHLORONAPHTHALENE DRY WGTBOTUG/KG	1	1	0	0	1	0
34585	2-CHLORONAPHTHALENE WET WGTISMG/KG	2	2	0	0	2	0
34586	2-CHLOROPHENOL TOTWUG/L	2	2	0	0	2	0
34589	2-CHLOROPHENOL DRY WGTBOTUG/KG	1	1	0	0	1	0
34590	2-CHLOROPHENOL WET WGTISMG/KG	2	2	0	0	2	0
34591	2-NITROPHENOL TOTWUG/L	2	2	0	0	2	0
34594	2-NITROPHENOL DRY WGTBOTUG/KG	1	1	0	0	1	0
34595	2-NITROPHENOL WET WGTISMG/KG	2	2	0	0	2	0
34596	DI-N-OCTYL PHTHALATE TOTWUG/L	2	2	0	0	2	0
34599	DI-N-OCTYL PHTHALATE DRY WGTBOTUG/KG	1	1	0	0	1	0
34600	DI-N-OCTYL PHTHALATE WET WGTISMG/KG	2	2	0	0	2	0
34601	2,4-DICHLOROPHENOL TOTWUG/L	2	2	0	0	2	0
34604	2,4-DICHLOROPHENOL DRY WGTBOTUG/KG	1	1	0	0	1	0
34605	2,4-DICHLOROPHENOL WET WGTISMG/KG	2	2	0	0	2	0
34606	2,4-DIMETHYLPHENOL TOTWUG/L	2	2	0	0	2	0
34609	2,4-DIMETHYLPHENOL DRY WGTBOTUG/KG	1	1	0	0	1	0
34610	2,4-DIMETHYLPHENOL WET WGTISMG/KG	2	2	0	0	2	0
34611	2,4-DINITROTOLUENE TOTWUG/L	2	2	0	0	2	0
34614	2,4-DINITROTOLUENE DRY WGTBOTUG/KG	1	1	0	0	1	0
34615	2,4-DINITROTOLUENE WET WGTISMG/KG	2	2	0	0	2	0
34616	2,4-DINITROPHENOL TOTWUG/L	2	2	0	0	2	0
34619	2,4-DINITROPHENOL DRY WGTBOTUG/KG	1	1	0	0	1	0
34620	2,4-DINITROPHENOL WET WGTISMG/KG	2	2	0	0	2	0
34621	2,4,6-TRICHLOROPHENOL TOTWUG/L	2	2	0	0	2	0
34624	2,4,6-TRICHLOROPHENOL DRY WGTBOTUG/KG	1	1	0	0	1	0
34625	2,4,6-TRICHLOROPHENOL WET WGTISMG/KG	2	2	0	0	2	0
34626	2,6-DINITROTOLUENE TOTWUG/L	2	2	0	0	2	0
34629	2,6-DINITROTOLUENE DRY WGTBOTUG/KG	1	1	0	0	1	0
34630	2,6-DINITROTOLUENE WET WGTISMG/KG	2	2	0	0	2	0
34631	3,3'-DICHLOROBENZIDINE TOTWUG/L	2	2	0	0	2	0
34634	3,3'-DICHLOROBENZIDINE DRY WGTBOTUG/KG	1	1	0	0	1	0
34635	3,3'-DICHLOROBENZIDINE WET WGTISMG/KG	3	3	0	0	2	0
34636	4-BROMOPHENYL PHENYL ETHER TOTWUG/L	2	2	0	0	2	0
34639	4-BROMOPHENYL PHENYL ETHER DRY WGTBOTUG/KG	1	1	0	0	1	0
34640	4-BROMOPHENYL PHENYL ETHER WET WGTISMG/KG	2	2	0	0	2	0
34641	4-CHLOROPHENYL PHENYL ETHER TOTWUG/L	2	2	0	0	2	0
34644	4-CHLOROPHENYL PHENYL ETHER DRY WGTBOTUG/KG	1	1	0	0	1	0
34645	4-CHLOROPHENYL PHENYL ETHER WET WGTISMG/KG	2	2	0	0	2	0
34646	4-NITROPHENOL TOTWUG/L	2	2	0	0	2	0
34649	4-NITROPHENOL DRY WGTBOTUG/KG	1	1	0	0	1	0
34650	4-NITROPHENOL WET WGTISMG/KG	2	2	0	0	2	0
34657	DNOC (4,6-DINITRO-ORTHO-CRESOL) TOTWUG/L	2	2	0	0	2	0
34661	DNOC (4,6-DINITRO-ORTHO-CRESOL) WET WGTISMG/KG	2	2	0	0	2	0
34664	PCB - 1221 WET WGTISMG/KG	1	1	0	0	1	0
34667	PCB - 1232 WET WGTISMG/KG	2	2	0	0	1	0
34669	PCB - 1248 WET WGTISMG/KG	1	1	0	0	1	0
34670	PCB - 1260 WET WGTISMG/KG	1	1	0	0	1	0
34671	PCB - 1016 TOTWUG/L	1	1	0	0	1	0
34674	PCB - 1016 WET WGTISMG/KG	1	1	0	0	1	0
34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	1	1	0	0	1	0
34682	CHLORDANE(TECH MIX & METABS),TISSUEWET WGT, MG/KG	1	1	0	0	1	0
34683	DI-N-BUTYL PHTHALATE, TISSUE, WET WGT WGT	2	2	0	0	2	0
34685	ENDRIN WET WGTISMG/KG	1	1	0	0	1	0
34686	HEPTACHLOR EPOXIDE WET WGTISMG/KG	1	1	0	0	1	0
34687	HEPTACHLOR WET WGTISMG/KG	1	1	0	0	1	0
34688	HEXACHLOROBENZENE WET WGTISMG/KG	2	2	0	0	2	0
34689	PCB - 1242 WET WGTISMG/KG	1	1	0	0	1	0
34690	PCB - 1254 WET WGTISMG/KG	1	1	0	0	1	0
34691	TOXAPHENE WET WGTISMG/KG	1	1	0	0	1	0
34694	PHENOL(C6H5OH)-SINGLE COMPOUND TOTWUG/L	2	2	0	0	2	0
34695	PHENOL(C6H5OH)-SINGLE COMPOUND DRY WGTUG/KG	1	1	0	0	1	0
39032	PCP (PENTACHLOROPHENOL) WHOLE WATER SAMPLE UG/L	2	2	0	0	2	0
39036	ALKALINITY, FILTERED SAMPLE AS CaCO3 MG/L	80	80	0	0	4	0
39060	PCP (PENTACHLOROPHENOL) IN TISSUE WET WGT UG/G	2	2	0	0	2	0
39061	PCP (PENTACHLOROPHENOL) IN BOT DEPOS DRY SOL UG/KG	1	1	0	0	1	0
39064	CHLORDANE-CIS ISOMER BOTTOM DEPOS (UG/KG DRY SOL	1	1	0	0	1	0
39074	BHC-ALPHA ISOMER, TISSUE UG/G WET WGT	1	1	0	0	1	0

**Parameter Period of Record Tabulation
From 10/10/51 To 07/23/96**

Parameter Code	Name	Total Obs	01/01/85 to 07/23/96	01/01/75 to 12/31/84	Before 01/01/75	Stations	
						Total	Park
39076	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	1	1	0	0	1	0
39086	ALKALINITY, WATER, DISS, INCR TIT, FIELD, AS CaCO3, MG/L	105	105	0	0	4	0
39099	BIS(2-ETHYLHEXYL) PHTHALATE, TISSUE, WET WGT, MG/KG	2	2	0	0	2	0
39100	BIS(2-ETHYLHEXYL) PHTHALATE, WHOLE WATER, UG/L	2	2	0	0	2	0
39102	BIS(2-ETHYLHEXYL) PHTHALATE, SEDIMENT, DRY WGT, UG/KG	1	1	0	0	1	0
39110	DI-N-BUTYL PHTHALATE, WHOLE WATER, UG/L	2	2	0	0	2	0
39112	DI-N-BUTYL PHTHALATE, SEDIMENTS, DRY WGT, UG/KG	1	1	0	0	1	0
39250	NAPHTHALENES, POLYCHLORINATED (UG/L)	2	2	0	0	2	0
39300	P,P' DDT IN WHOLE WATER SAMPLE (UG/L)	1	1	0	0	1	0
39301	P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	1	1	0	0	1	0
39302	P P DDT IN TISSUE WET WGT (UG/G)	1	1	0	0	1	0
39310	P,P' DDD IN WHOLE WATER SAMPLE (UG/L)	1	1	0	0	1	0
39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	1	1	0	0	1	0
39320	P,P' DDE IN WHOLE WATER SAMPLE (UG/L)	1	1	0	0	1	0
39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	1	1	0	0	1	0
39322	P,P'-DDE IN TISSUE WET WGT MG/KG	1	1	0	0	1	0
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	1	1	0	0	1	0
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	1	1	0	0	1	0
39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	1	1	0	0	1	0
39338	BETA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	1	1	0	0	1	0
39340	GAMMA-BHC(LINDANE), WHOLE WATER, UG/L	1	1	0	0	1	0
39348	CHLORDANE, ALPHA, IN WHOLE WATER SAMPLE (UG/L)	1	1	0	0	1	0
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	1	1	0	0	1	0
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	1	1	0	0	1	0
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	1	1	0	0	1	0
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	1	1	0	0	1	0
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	1	1	0	0	1	0
39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	1	1	0	0	1	0
39404	DIELDRIN IN TISSUE WET WGT (UG/G)	1	1	0	0	1	0
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	1	1	0	0	1	0
39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	1	1	0	0	1	0
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	1	1	0	0	1	0
39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	1	1	0	0	1	0
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	1	1	0	0	1	0
39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	1	1	0	0	1	0
39488	PCB - 1221 IN THE WHOLE WATER SAMPLE UG/L	1	1	0	0	1	0
39491	PCB - 1221 BOT. DEP., PCB SERIES DRY SOL UG/KG	1	1	0	0	1	0
39495	PCB - 1232 BOT. DEP., PCB-SERIES DRY SOL UG/KG	1	1	0	0	1	0
39496	PCB - 1242 PCB SERIES WHOLE WATER SAMPLE UG/L	1	1	0	0	1	0
39499	PCB - 1242 BOT. DEP., PCB-SERIES DRY SOL UG/KG	1	1	0	0	1	0
39500	PCB - 1248 PCB SERIES WHOLE WATER SAMPLE UG/L	1	1	0	0	1	0
39503	PCB - 1248 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	1	1	0	0	1	0
39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE UG/L	1	1	0	0	1	0
39507	PCB - 1254 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	1	1	0	0	1	0
39508	PCB - 1260 PCB SERIES WHOLE WATER SAMPLE UG/L	1	1	0	0	1	0
39511	PCB - 1260 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	1	1	0	0	1	0
39514	PCB - 1016 IN BOTTOM SEDIMENTS DRY WT UG/KG	1	1	0	0	1	0
39700	HEXACHLORO BENZENE IN WHOLE WATER SAMPLE (UG/L)	2	2	0	0	2	0
39701	HEXACHLORO BENZENE IN BOT DEPOS (UG/KG DRY SOLIDS)	1	1	0	0	1	0
39705	HEXACHLOROBUTADIENE BOT. DEPOS. (UG/KG DRY WGT)	1	1	0	0	1	0
39785	GAMMA-BHC(LINDANE), TISSUE, WET WEIGHT, MG/KG	1	1	0	0	1	0
39810	CHLORDANE, GAMMA, IN WHOLE WATER SAMPLE (UG/L)	1	1	0	0	1	0
39811	CHLORDANE, GAMMA, IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	1	1	0	0	1	0
45145	DIMETHYLNAPHTHALENE IN SEDIMENT UG/KG	1	1	0	0	1	0
50760	CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	5	0	5	0	5	1
60050	ALGAE, TOTAL (CELLS/ML)	1	0	1	0	1	0
70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L	237	162	70	5	17	7
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	87	0	59	28	27	3
70302	SOLIDS, DISSOLVED-TONS PER DAY	70	0	70	0	5	2
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	83	0	75	8	15	3
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	4	0	4	0	2	1
70331	SUSPENDED SED SIEVE DIAMETER, % FINER THAN .062MM	1	1	0	0	1	0
70507	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	33	32	1	0	1	0
70950	BIOMASS-CHLOROPHYLL RATIO, PERIPHYTON (UNITS)	1	0	1	0	1	0
70957	CHLOROPHYLL-A, PERIPHYTON UG/L, CHROMO-FLUORO	2	0	2	0	1	0
70958	CHLOROPHYLL-B, PERIPHYTON UG/L, CHROMO-FLUORO	2	0	2	0	1	0
71830	HYDROXIDE ION (MG/L AS OH)	4	4	0	0	2	0
71850	NITRATE NITROGEN, TOTAL (MG/L AS NO3)	107	0	59	48	29	2
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	9	0	3	6	6	0
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	2	0	2	0	1	0
71865	IODIDE (MG/L AS I)	4	4	0	0	4	0

**Parameter Period of Record Tabulation
From 10/10/51 To 07/23/96**

Parameter Code	Name	Total Obs	01/01/85 to 07/23/96	01/01/75 to 12/31/84	Before 01/01/75	Stations	
						Total	Park
71870	BROMIDE (MG/L AS BR)	7	7	0	0	7	0
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	38	0	38	0	1	0
71887	NITROGEN, TOTAL, AS NO3 - MG/L	57	0	57	0	2	1
71890	MERCURY, DISSOLVED (UG/L AS HG)	37	22	15	0	16	0
71900	MERCURY, TOTAL (UG/L AS HG)	313	159	133	21	47	10
71921	MERCURY, TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	1	1	0	0	1	0
71930	MERCURY, TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	1	1	0	0	1	0
71936	LEAD, TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	1	1	0	0	1	0
71937	COPPER, TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	1	1	0	0	1	0
71938	ZINC, TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	1	1	0	0	1	0
71939	CHROMIUM, TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	1	1	0	0	1	0
71940	CADMIUM, TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	1	1	0	0	1	0
73529	BENZENAMINE, 4-CHLORO- TOTWUG/L	2	2	0	0	2	0
73605	BENZENAMINE, 4-NITRO- TOTWUG/L	2	2	0	0	2	0
75212	BENZYL ALCOHOL SEDIMENT, DRY WGT, UG/KG	1	1	0	0	1	0
75315	BENZOIC ACID SEDIMENT, DRY WGT, UG/KG	1	1	0	0	1	0
75647	DIBENZOFURAN SEDIMENT, DRY WGT, UG/KG	1	1	0	0	1	0
75985	TRITIUM, 1 SIGMA PRC EST, TOTAL, WATER PC/L	1	1	0	0	1	0
76184	BENZYL ALCOHOL TISSUE, WET WGT, MG/KG	2	2	0	0	2	0
76287	BENZOIC ACID TISSUE, WET WGT, MG/KG	2	2	0	0	2	0
76619	DIBENZOFURAN TISSUE, WET WGT, MG/KG	2	2	0	0	2	0
76982	4-CHLORO-3,5-DIMETHYLPHENOL, IN WATER UG/L	2	2	0	0	2	0
77146	P-CRESOL WHOLE WATER, UG/L	2	2	0	0	2	0
77147	BENZYL ALCOHOL WHOLE WATER, UG/L	2	2	0	0	2	0
77152	O-CRESOL WHOLE WATER, UG/L	2	2	0	0	2	0
77247	BENZOIC ACID WHOLE WATER, UG/L	2	2	0	0	2	0
77416	2-METHYLNAPHTHALENE WHOLE WATER, UG/L	2	2	0	0	2	0
77687	2,4,5-TRICHLOROPHENOL WHOLE WATER, UG/L	2	2	0	0	2	0
78008	ENDRIN KETONE IN WATER UG/L	1	1	0	0	1	0
78142	ORTHO NITROANILINE IN WHOLE WATER UG/L	2	2	0	0	2	0
78211	ENDRIN KETONE IN FISH TISSUE WETWTMG/KG	1	1	0	0	1	0
78299	2-NITROANILINE IN SEDIMENT, DRY WEIGHT UG/KG	1	1	0	0	1	0
78300	3-NITROANILINE, TOTAL, IN WATER UG/L	2	2	0	0	2	0
78395	2-METHYLPHENOL SEDWETWTMG/KG	1	1	0	0	1	0
78396	4-METHYLPHENOL SEDWETWTMG/KG	1	1	0	0	1	0
78401	2,4,5-TRICHLOROPHENOL IN SEDIMENT, DRY WEIGHT, UG/KG	1	1	0	0	1	0
78867	4-CHLOROANILINE IN SEDIMENT DRY WEIGHT UG/KG	1	1	0	0	1	0
78869	3-NITROANILINE IN SEDIMENT DRY WEIGHT UG/KG	1	1	0	0	1	0
78870	4-NITROANILINE IN SEDIMENT DRY WEIGHT UG/KG	1	1	0	0	1	0
79025	CHLORDANE, ALPHA, IN FISH WET WEIGHT UG/KG	1	1	0	0	1	0
79040	DIBENZ(A,H)ANTHRACENE TISWETWTMG/KG	2	2	0	0	2	0
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	121	77	44	0	1	0
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	33	0	33	0	1	0
81302	DIBENZOFURAN(C12H8O) WHOLE WATER SAMPLE UG/L	2	2	0	0	2	0
81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	75	75	0	0	45	11
81644	METHOXYCHLOR IN FISH TISSUE, UG/G WET WEIGHT	1	1	0	0	1	0
81951	TOTAL ORGANIC CARBON(TOC)SEDIMENT DRY WEIGHT MG/KG	24	24	0	0	21	6
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	1	0	1	0	1	0
82078	TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS, NTU	6	6	0	0	1	0
82079	TURBIDITY, LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	96	63	33	0	18	4
82081	CARBON-13 / CARBON-12 STABLE ISOTOPE RATIO PER MIL	2	2	0	0	2	0
82082	DEUTERIUM/PROTIUM (H-2/H-1) STABLE ISOTOPE RATIO	6	4	2	0	6	0
82085	OXYGEN-18/OXYGEN-16 STABLE ISOTOPE RATIO PER MIL	6	4	2	0	6	0
82233	SILICON (SI) TOTAL IN WATER MG/L AS (SIO2)	4	0	4	0	4	0
82398	SAMPLING METHOD (CODES)	102	100	2	0	1	0
84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	33	3	9	21	16	2
84001	AQUIFER NAME CODE (SEE USGS CATALOG)	34	3	10	21	17	2
85759	NITROANILINE, 2- , TISSUE, WET WT, MG/KG	2	2	0	0	2	0
85760	CHLORANILINE, 4- , TISSUE, WET WT, MG/KG	2	2	0	0	2	0
85762	NITROANILINE, 4- , TISSUE, WET WT, MG/KG	2	2	0	0	2	0
85763	NITROANILINE, 3- , TISSUE, WET WT, MG/KG	2	2	0	0	2	0
85766	METHYLPHENOL, 4- , TISSUE, WET WT, MG/KG	2	2	0	0	2	0
85767	METHYLPHENOL, 2- , TISSUE, WET WT, MG/KG	2	2	0	0	2	0
85791	ENDRIN KETONE, SEDIMENT, DRY WT,(SF) UG/KG	1	1	0	0	1	0

Station/Parameter Period of Record Tabulation **From 10/10/51 To 07/23/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
TUZI0051	No	00004	STREAM WIDTH (FEET)	11/15/88-01/07/93	4	29	
TUZI0069	No	00004	STREAM WIDTH (FEET)	02/25/88-10/25/88	0	4	
TUZI0098	No	00004	STREAM WIDTH (FEET)	10/22/86-06/25/96	9	94	
TUZI0002	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	02/24/78-04/04/78	0	2	
TUZI0003	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	02/24/78-02/24/78	0	1	
TUZI0004	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	12/20/77-12/20/77	0	1	
TUZI0005	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	10/24/58-07/26/74	15	3	
TUZI0006	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	07/08/77-07/08/77	0	1	
TUZI0008	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	02/13/73-02/13/73	0	1	
TUZI0014	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	10/09/58-11/30/76	18	3	
TUZI0016	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	10/15/58-10/15/58	0	1	
TUZI0021	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	05/04/78-05/04/78	0	1	
TUZI0040	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	10/29/58-10/29/58	0	1	
TUZI0042	Yes	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	08/18/59-08/11/75	15	2	
TUZI0061	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	02/25/81-02/25/81	0	1	
TUZI0081	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	02/08/78-02/08/78	0	1	
TUZI0090	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	02/25/81-02/25/81	0	1	
TUZI0098	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	10/27/77-10/27/77	0	1	
TUZI0111	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	10/10/51-12/13/52	1	3	
TUZI0115	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	06/08/77-06/08/77	0	1	
TUZI0001	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/07/78-07/07/78	0	1	
TUZI0002	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/24/78-07/21/93	15	3	
TUZI0004	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/20/77-12/20/77	0	1	
TUZI0005	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/24/58-10/24/58	0	1	
TUZI0006	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/20/93-07/20/93	0	1	
TUZI0007	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/08/78-07/08/78	0	1	
TUZI0009	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/28/90-09/12/91	1	16	
TUZI0010	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/15/80-12/10/80	0	10	
TUZI0011	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/12/80-12/10/80	0	12	
TUZI0012	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/12/80-12/10/80	0	12	
TUZI0014	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/26/93-07/26/93	0	1	
TUZI0015	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/08/73-02/08/73	0	1	
TUZI0016	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/15/58-10/15/58	0	1	
TUZI0018	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/31/73-08/23/73	0	6	
TUZI0021	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/04/78-05/04/78	0	1	
TUZI0023	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/06/88-12/06/88	0	1	
TUZI0026	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/06/88-12/06/88	0	1	
TUZI0027	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/06/88-12/06/88	0	1	
TUZI0029	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/06/88-12/06/88	0	1	
TUZI0031	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/12/79-06/12/79	0	1	
TUZI0032	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/21/77-06/21/77	0	1	
TUZI0033	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/06/88-12/06/88	0	1	
TUZI0036	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/01/76-12/09/80	4	15	
TUZI0040	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/29/58-10/29/58	0	1	
TUZI0042	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/04/63-03/04/63	0	1	
TUZI0043	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/30/73-08/15/73	0	6	
TUZI0044	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/08/73-02/08/73	0	1	
TUZI0045	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/08/73-02/08/73	0	1	
TUZI0046	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/26/73-12/09/80	7	19	
TUZI0047	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/12/79-06/12/79	0	1	
TUZI0051	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/15/88-01/07/93	4	31	
TUZI0061	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/25/81-02/25/81	0	1	
TUZI0065	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/30/73-02/07/73	0	4	
TUZI0066	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/12/80-04/29/83	3	14	
TUZI0068	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/12/80-12/09/80	0	12	
TUZI0069	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/25/88-10/25/88	0	4	
TUZI0070	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/12/80-12/09/80	0	12	
TUZI0071	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/09/73-12/09/80	7	16	
TUZI0075	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/08/78-07/08/78	0	1	
TUZI0081	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/08/78-02/08/78	0	1	
TUZI0083	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/31/79-10/31/79	0	1	
TUZI0085	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/07/73-02/07/73	0	1	
TUZI0088	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/19/79-04/30/80	0	4	
TUZI0090	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/25/81-02/25/81	0	1	
TUZI0094	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/31/73-02/07/73	0	2	
TUZI0096	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/26/90-07/24/91	1	6	
TUZI0097	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/12/74-12/29/76	2	6	
TUZI0098	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/24/76-07/23/96	20	177	
TUZI0100	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/10/74-09/09/76	1	4	
TUZI0101	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/02/91-07/02/91	0	1	
TUZI0102	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/26/73-09/09/76	3	7	
TUZI0103	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/26/77-04/26/77	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation From 10/10/51 To 07/23/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
TUZI0104	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/02/91-07/02/91	0	1	
TUZI0105	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/23/78-03/23/78	0	1	
TUZI0106	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/26/73-09/02/76	3	8	
TUZI0108	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/04/91-07/04/91	0	1	
TUZI0109	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/10/51-12/13/52	1	3	
TUZI0110	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/21/78-07/21/78	0	1	
TUZI0111	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/10/51-12/13/52	1	3	
TUZI0112	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/10/51-08/01/94	42	4	
TUZI0114	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/10/51-10/10/51	0	1	
TUZI0115	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/08/77-06/08/77	0	1	
TUZI0071	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	05/20/80-05/20/80	0	1	
TUZI0009	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	03/28/90-09/12/91	1	15	
TUZI0010	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	04/15/80-12/10/80	0	10	
TUZI0011	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/12/80-12/10/80	0	12	
TUZI0012	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/12/80-12/10/80	0	11	
TUZI0036	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/12/80-12/09/80	0	12	
TUZI0046	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/12/80-12/09/80	0	11	
TUZI0051	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	11/15/88-01/07/93	4	30	
TUZI0066	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/12/80-04/29/83	3	13	
TUZI0068	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/12/80-12/09/80	0	11	
TUZI0069	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/25/88-10/25/88	0	4	
TUZI0070	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/12/80-12/09/80	0	12	
TUZI0071	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/12/80-12/09/80	0	11	
TUZI0096	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	04/26/90-07/24/91	1	6	
TUZI0097	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/26/75-03/25/75	0	2	
TUZI0098	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/10/78-07/23/96	18	125	
TUZI0100	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/10/74-10/10/74	0	1	
TUZI0101	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/02/91-07/02/91	0	1	
TUZI0104	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/02/91-07/02/91	0	1	
TUZI0108	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/04/91-07/04/91	0	1	
TUZI0098	No	00025	BAROMETRIC PRESSURE (MM OF HG)	10/27/82-07/23/96	13	111	
TUZI0101	No	00025	BAROMETRIC PRESSURE (MM OF HG)	07/02/91-07/02/91	0	1	
TUZI0104	No	00025	BAROMETRIC PRESSURE (MM OF HG)	07/02/91-07/02/91	0	1	
TUZI0108	No	00025	BAROMETRIC PRESSURE (MM OF HG)	07/04/91-07/04/91	0	1	
TUZI0002	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	07/21/93-07/21/93	0	1	
TUZI0006	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	07/20/93-07/20/93	0	1	
TUZI0014	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	07/26/93-07/26/93	0	1	
TUZI0098	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	06/29/76-07/23/96	20	129	
TUZI0101	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	07/02/91-07/02/91	0	1	
TUZI0104	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	07/02/91-07/02/91	0	1	
TUZI0108	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	07/04/91-07/04/91	0	1	
TUZI0109	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	10/10/51-12/13/52	1	3	
TUZI0112	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	08/01/94-08/01/94	0	1	
TUZI0002	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	02/24/78-07/21/93	15	3	
TUZI0003	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	02/24/78-02/24/78	0	1	
TUZI0004	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	12/20/77-12/20/77	0	1	
TUZI0005	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	10/24/58-07/26/74	15	3	
TUZI0006	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/08/77-07/20/93	16	2	
TUZI0008	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	02/13/73-02/13/73	0	1	
TUZI0014	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	10/09/58-07/26/93	34	5	
TUZI0016	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	10/15/58-10/15/58	0	1	
TUZI0021	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	05/04/78-05/04/78	0	1	
TUZI0031	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	06/12/79-06/12/79	0	1	
TUZI0032	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	06/21/77-06/21/77	0	1	
TUZI0040	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	10/29/58-10/29/58	0	1	
TUZI0042	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/18/59-08/11/75	15	6	
TUZI0047	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	06/12/79-06/12/79	0	1	
TUZI0061	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	02/25/81-02/25/81	0	1	
TUZI0081	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	02/08/78-02/08/78	0	1	
TUZI0090	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	02/25/81-02/25/81	0	1	
TUZI0098	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	03/24/76-07/23/96	20	175	
TUZI0101	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/02/91-07/02/91	0	1	
TUZI0103	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	04/26/77-04/26/77	0	1	
TUZI0104	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/02/91-07/02/91	0	1	
TUZI0108	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/04/91-07/04/91	0	1	
TUZI0109	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	10/10/51-12/13/52	1	3	
TUZI0111	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	10/10/51-12/13/52	1	3	
TUZI0112	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	10/10/51-08/01/94	42	4	
TUZI0114	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	10/10/51-10/10/51	0	1	
TUZI0115	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	06/08/77-06/08/77	0	1	
TUZI0098	No	00049	SURFACE AREA IN SQUARE MILES	03/24/76-10/24/79	3	41	
TUZI0009	No	00055	VELOCITY, STREAM FT/SEC	06/20/91-07/24/91	0	2	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation **From 10/10/51 To 07/23/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
TUZI0051	No	00055	VELOCITY, STREAM FT/SEC	11/15/88-01/07/93	4	28	
TUZI0069	No	00055	VELOCITY, STREAM FT/SEC	02/25/88-10/25/88	0	4	
TUZI0096	No	00055	VELOCITY, STREAM FT/SEC	10/30/90-07/24/91	0	3	
TUZI0005	No	00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	10/24/58-10/24/58	0	1	
TUZI0040	No	00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	10/29/58-10/29/58	0	1	
TUZI0051	No	00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	07/21/92-07/21/92	0	1	
TUZI0009	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/20/91-07/24/91	0	2	
TUZI0010	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	04/15/80-12/10/80	0	5	
TUZI0011	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	02/12/80-12/10/80	0	8	
TUZI0012	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	02/12/80-12/10/80	0	6	
TUZI0023	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	12/06/88-12/06/88	0	1	
TUZI0026	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	12/06/88-12/06/88	0	1	
TUZI0031	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/12/79-06/12/79	0	1	
TUZI0032	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/21/77-06/21/77	0	1	
TUZI0033	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	12/06/88-12/06/88	0	1	
TUZI0036	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	02/12/80-12/09/80	0	7	
TUZI0046	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	01/26/73-12/09/80	7	11	
TUZI0047	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/12/79-06/12/79	0	1	
TUZI0051	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	01/17/89-01/07/93	3	8	
TUZI0065	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	02/06/73-02/07/73	0	2	
TUZI0066	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	02/12/80-02/12/80	0	1	
TUZI0068	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	02/12/80-12/09/80	0	7	
TUZI0070	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	03/18/80-12/09/80	0	8	
TUZI0071	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	02/12/80-12/09/80	0	9	
TUZI0094	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	01/31/73-01/31/73	0	1	
TUZI0096	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	10/30/90-07/24/91	0	4	
TUZI0098	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	03/24/76-06/25/96	20	176	
TUZI0101	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	07/02/91-07/02/91	0	1	
TUZI0102	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	01/26/73-01/30/73	0	3	
TUZI0103	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	04/26/77-04/26/77	0	1	
TUZI0104	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	07/02/91-07/02/91	0	1	
TUZI0106	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	01/26/73-08/15/73	0	4	
TUZI0108	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	07/04/91-07/04/91	0	1	
TUZI0098	No	00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	10/22/86-06/25/96	9	100	
TUZI0009	No	00064	DEPTH OF STREAM, MEAN (FT)	06/20/91-07/24/91	0	2	
TUZI0051	No	00064	DEPTH OF STREAM, MEAN (FT)	11/15/88-01/07/93	4	29	
TUZI0069	No	00064	DEPTH OF STREAM, MEAN (FT)	02/25/88-10/25/88	0	4	
TUZI0096	No	00064	DEPTH OF STREAM, MEAN (FT)	10/30/90-07/24/91	0	3	
TUZI0051	No	00065	STAGE, STREAM (FEET)	03/11/92-01/07/93	0	6	
TUZI0096	No	00065	STAGE, STREAM (FEET)	01/29/91-01/29/91	0	1	
TUZI0098	No	00065	STAGE, STREAM (FEET)	10/27/82-06/25/96	13	114	
TUZI0018	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	08/09/73-08/22/73	0	3	
TUZI0032	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	06/21/77-06/21/77	0	1	
TUZI0043	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	08/09/73-08/22/73	0	3	
TUZI0046	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	08/09/73-08/22/73	0	3	
TUZI0071	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	08/09/73-08/22/73	0	3	
TUZI0083	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	10/31/79-10/31/79	0	1	
TUZI0088	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/19/79-04/30/80	0	4	
TUZI0097	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	11/12/74-03/25/75	0	4	
TUZI0098	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	03/24/76-08/09/79	3	28	
TUZI0102	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	08/07/73-08/23/73	0	3	
TUZI0106	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/07/73-08/23/73	0	4	
TUZI0010	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/21/80-12/10/80	0	8	
TUZI0011	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	02/12/80-12/10/80	0	11	
TUZI0012	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	02/12/80-12/10/80	0	11	
TUZI0036	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/01/76-12/09/80	4	15	
TUZI0046	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	02/12/80-12/09/80	0	11	
TUZI0066	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	02/12/80-12/09/80	0	12	
TUZI0068	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	02/12/80-12/09/80	0	11	
TUZI0070	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	02/12/80-12/09/80	0	12	
TUZI0071	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	02/12/80-12/09/80	0	12	
TUZI0098	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/12/79-07/23/96	17	102	
TUZI0100	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/10/74-09/09/76	1	4	
TUZI0102	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/31/76-09/09/76	0	3	
TUZI0106	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/31/76-09/09/76	0	3	
TUZI0088	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	10/31/79-10/31/79	0	1	
TUZI0009	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	03/28/90-09/12/91	1	15	
TUZI0010	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/21/80-12/10/80	0	9	
TUZI0011	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	02/12/80-12/10/80	0	10	
TUZI0012	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	02/12/80-12/10/80	0	10	
TUZI0018	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/31/73-01/31/73	0	1	
TUZI0023	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	12/06/88-12/06/88	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation **From 10/10/51 To 07/23/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
TUZI0026	Yes	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	12/06/88-12/06/88	0	1	
TUZI0027	Yes	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	12/06/88-12/06/88	0	1	
TUZI0029	Yes	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	12/06/88-12/06/88	0	1	
TUZI0033	Yes	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	12/06/88-12/06/88	0	1	
TUZI0036	No	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	02/12/80-12/09/80	0	10	
TUZI0046	No	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	02/12/80-12/09/80	0	9	
TUZI0051	No	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	11/15/88-01/07/93	4	31	
TUZI0066	No	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	02/12/80-04/29/83	3	11	
TUZI0068	No	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	02/12/80-12/09/80	0	10	
TUZI0069	No	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	02/25/88-10/25/88	0	4	
TUZI0070	No	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	02/12/80-12/09/80	0	10	
TUZI0071	No	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	02/12/80-12/09/80	0	10	
TUZI0094	No	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	01/31/73-02/07/73	0	2	
TUZI0096	No	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	04/26/90-07/24/91	1	6	
TUZI0097	No	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	11/12/74-03/25/75	0	5	
TUZI0102	No	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	01/26/73-01/30/73	0	3	
TUZI0001	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/07/78-07/07/78	0	1	
TUZI0002	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/24/78-07/21/93	15	3	
TUZI0004	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/20/77-12/20/77	0	1	
TUZI0005	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/24/58-07/26/74	15	3	
TUZI0006	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/08/77-07/20/93	16	2	
TUZI0007	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/08/78-07/08/78	0	1	
TUZI0008	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/13/73-02/13/73	0	1	
TUZI0010	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/15/80-05/21/80	0	2	
TUZI0011	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/12/80-05/21/80	0	4	
TUZI0012	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/12/80-05/21/80	0	4	
TUZI0014	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/09/58-07/26/93	34	5	
TUZI0015	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/08/73-02/08/73	0	1	
TUZI0016	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/15/58-10/15/58	0	1	
TUZI0018	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/09/73-08/22/73	0	3	
TUZI0021	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/04/78-05/04/78	0	1	
TUZI0023	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/06/88-12/06/88	0	1	
TUZI0026	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/06/88-12/06/88	0	1	
TUZI0027	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/06/88-12/06/88	0	1	
TUZI0029	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/06/88-12/06/88	0	1	
TUZI0031	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/12/79-06/12/79	0	1	
TUZI0032	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/21/77-06/21/77	0	1	
TUZI0033	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/06/88-12/06/88	0	1	
TUZI0036	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/01/76-05/20/80	3	7	
TUZI0040	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/29/58-10/29/58	0	1	
TUZI0042	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/18/59-08/11/75	15	6	
TUZI0043	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/30/73-08/22/73	0	4	
TUZI0044	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/08/73-02/08/73	0	1	
TUZI0045	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/08/73-02/08/73	0	1	
TUZI0046	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/26/73-04/16/80	7	9	
TUZI0047	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/12/79-06/12/79	0	1	
TUZI0051	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/15/88-01/07/93	4	31	
TUZI0061	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/25/81-02/25/81	0	1	
TUZI0065	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/30/73-06/13/79	6	3	
TUZI0066	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/12/80-04/29/83	3	6	
TUZI0068	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/12/80-05/20/80	0	4	
TUZI0069	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/25/88-10/25/88	0	4	
TUZI0070	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/12/80-05/20/80	0	4	
TUZI0071	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/09/73-05/20/80	6	8	
TUZI0075	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/08/78-07/08/78	0	1	
TUZI0081	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/08/78-02/08/78	0	1	
TUZI0085	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/07/73-02/07/73	0	1	
TUZI0090	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/25/81-02/25/81	0	1	
TUZI0096	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/26/90-07/24/91	1	6	
TUZI0097	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/29/76-12/29/76	0	1	
TUZI0098	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/24/76-07/23/96	20	175	T,A,S
TUZI0100	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/10/74-09/09/76	1	4	
TUZI0101	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/02/91-07/02/91	0	1	
TUZI0102	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/26/73-09/09/76	3	8	
TUZI0103	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/26/77-04/26/77	0	1	
TUZI0104	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/02/91-07/02/91	0	1	
TUZI0105	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/23/78-03/23/78	0	1	
TUZI0106	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/26/73-09/09/76	3	9	
TUZI0108	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/04/91-07/04/91	0	1	
TUZI0109	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/10/51-12/13/52	1	3	
TUZI0110	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/21/78-07/21/78	0	1	
TUZI0111	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/10/51-12/13/52	1	3	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

**Station/Parameter Period of Record Tabulation
From 10/10/51 To 07/23/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
TUZI0112	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/10/51-08/01/94	42	4	
TUZI0114	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/10/51-10/10/51	0	1	
TUZI0115	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/08/77-06/08/77	0	1	
TUZI0002	No	00300	OXYGEN, DISSOLVED MG/L	07/21/93-07/21/93	0	1	
TUZI0006	No	00300	OXYGEN, DISSOLVED MG/L	07/20/93-07/20/93	0	1	
TUZI0009	No	00300	OXYGEN, DISSOLVED MG/L	03/28/90-09/12/91	1	12	
TUZI0010	No	00300	OXYGEN, DISSOLVED MG/L	04/15/80-12/10/80	0	10	
TUZI0011	No	00300	OXYGEN, DISSOLVED MG/L	02/12/80-12/10/80	0	12	
TUZI0012	No	00300	OXYGEN, DISSOLVED MG/L	02/12/80-12/10/80	0	12	
TUZI0014	No	00300	OXYGEN, DISSOLVED MG/L	07/26/93-07/26/93	0	1	
TUZI0018	No	00300	OXYGEN, DISSOLVED MG/L	08/09/73-08/22/73	0	3	
TUZI0023	No	00300	OXYGEN, DISSOLVED MG/L	12/06/88-12/06/88	0	1	
TUZI0026	Yes	00300	OXYGEN, DISSOLVED MG/L	12/06/88-12/06/88	0	1	
TUZI0032	Yes	00300	OXYGEN, DISSOLVED MG/L	06/21/77-06/21/77	0	1	
TUZI0033	Yes	00300	OXYGEN, DISSOLVED MG/L	12/06/88-12/06/88	0	1	
TUZI0036	No	00300	OXYGEN, DISSOLVED MG/L	09/01/76-12/09/80	4	14	
TUZI0043	No	00300	OXYGEN, DISSOLVED MG/L	01/30/73-08/22/73	0	4	
TUZI0046	No	00300	OXYGEN, DISSOLVED MG/L	01/30/73-12/09/80	7	15	
TUZI0047	No	00300	OXYGEN, DISSOLVED MG/L	06/12/79-06/12/79	0	1	
TUZI0051	No	00300	OXYGEN, DISSOLVED MG/L	11/15/88-01/07/93	4	29	
TUZI0065	No	00300	OXYGEN, DISSOLVED MG/L	01/30/73-01/30/73	0	1	
TUZI0066	No	00300	OXYGEN, DISSOLVED MG/L	02/12/80-04/29/83	3	14	
TUZI0068	No	00300	OXYGEN, DISSOLVED MG/L	02/12/80-12/09/80	0	11	
TUZI0069	No	00300	OXYGEN, DISSOLVED MG/L	02/25/88-10/25/88	0	4	
TUZI0070	No	00300	OXYGEN, DISSOLVED MG/L	02/12/80-12/09/80	0	11	
TUZI0071	No	00300	OXYGEN, DISSOLVED MG/L	08/09/73-12/09/80	7	16	
TUZI0083	Yes	00300	OXYGEN, DISSOLVED MG/L	10/31/79-10/31/79	0	1	
TUZI0088	No	00300	OXYGEN, DISSOLVED MG/L	07/19/79-04/30/80	0	4	
TUZI0096	No	00300	OXYGEN, DISSOLVED MG/L	04/26/90-07/24/91	1	5	
TUZI0097	No	00300	OXYGEN, DISSOLVED MG/L	11/12/74-03/25/75	0	5	
TUZI0098	No	00300	OXYGEN, DISSOLVED MG/L	03/24/76-07/23/96	20	163	T,A,S
TUZI0100	No	00300	OXYGEN, DISSOLVED MG/L	10/10/74-09/09/76	1	4	
TUZI0101	No	00300	OXYGEN, DISSOLVED MG/L	07/02/91-07/02/91	0	1	
TUZI0102	No	00300	OXYGEN, DISSOLVED MG/L	08/07/73-09/09/76	3	5	
TUZI0104	No	00300	OXYGEN, DISSOLVED MG/L	07/02/91-07/02/91	0	1	
TUZI0106	No	00300	OXYGEN, DISSOLVED MG/L	08/07/73-08/31/76	3	4	
TUZI0108	No	00300	OXYGEN, DISSOLVED MG/L	07/04/91-07/04/91	0	1	
TUZI0112	No	00300	OXYGEN, DISSOLVED MG/L	08/01/94-08/01/94	0	1	
TUZI0009	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	03/28/90-09/12/91	1	12	
TUZI0023	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	12/06/88-12/06/88	0	1	
TUZI0026	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	12/06/88-12/06/88	0	1	
TUZI0033	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	12/06/88-12/06/88	0	1	
TUZI0051	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	11/15/88-01/07/93	4	29	
TUZI0069	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	02/25/88-10/25/88	0	4	
TUZI0071	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	03/18/80-05/20/80	0	2	
TUZI0096	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	04/26/90-07/24/91	1	5	
TUZI0098	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	10/27/82-10/19/88	5	30	
TUZI0018	No	00310	BOD, 5 DAY, 20 DEG C MG/L	02/07/73-08/22/73	0	4	
TUZI0036	No	00310	BOD, 5 DAY, 20 DEG C MG/L	09/01/76-09/10/76	0	3	
TUZI0043	No	00310	BOD, 5 DAY, 20 DEG C MG/L	02/07/73-02/07/73	0	1	
TUZI0065	No	00310	BOD, 5 DAY, 20 DEG C MG/L	02/07/73-02/07/73	0	1	
TUZI0088	No	00310	BOD, 5 DAY, 20 DEG C MG/L	10/31/79-04/30/80	0	3	
TUZI0094	No	00310	BOD, 5 DAY, 20 DEG C MG/L	02/07/73-02/07/73	0	1	
TUZI0100	No	00310	BOD, 5 DAY, 20 DEG C MG/L	09/02/76-09/09/76	0	2	
TUZI0102	No	00310	BOD, 5 DAY, 20 DEG C MG/L	09/09/76-09/09/76	0	1	
TUZI0106	No	00310	BOD, 5 DAY, 20 DEG C MG/L	09/09/76-09/09/76	0	1	
TUZI0098	No	00335	COD, .025N K2CR2O7 MG/L	08/31/76-08/31/76	0	1	
TUZI0098	No	00340	COD, .25N K2CR2O7 MG/L	03/24/76-07/23/96	20	135	T,A,S
TUZI0001	No	00400	PH (STANDARD UNITS)	07/07/78-07/07/78	0	1	
TUZI0002	No	00400	PH (STANDARD UNITS)	02/24/78-07/21/93	15	3	
TUZI0004	No	00400	PH (STANDARD UNITS)	12/20/77-12/20/77	0	1	
TUZI0005	No	00400	PH (STANDARD UNITS)	10/24/58-03/19/73	14	2	
TUZI0006	No	00400	PH (STANDARD UNITS)	07/08/77-07/20/93	16	2	
TUZI0007	No	00400	PH (STANDARD UNITS)	07/08/78-07/08/78	0	1	
TUZI0008	No	00400	PH (STANDARD UNITS)	02/13/73-02/13/73	0	1	
TUZI0010	No	00400	PH (STANDARD UNITS)	04/15/80-12/10/80	0	10	
TUZI0011	No	00400	PH (STANDARD UNITS)	02/12/80-12/10/80	0	12	
TUZI0012	No	00400	PH (STANDARD UNITS)	02/12/80-12/10/80	0	12	
TUZI0014	No	00400	PH (STANDARD UNITS)	10/09/58-07/26/93	34	5	
TUZI0016	No	00400	PH (STANDARD UNITS)	10/15/58-10/15/58	0	1	
TUZI0021	No	00400	PH (STANDARD UNITS)	05/04/78-05/04/78	0	1	
TUZI0031	Yes	00400	PH (STANDARD UNITS)	06/12/79-06/12/79	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

**Station/Parameter Period of Record Tabulation
From 10/10/51 To 07/23/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
TUZI0032	Yes	00400	PH (STANDARD UNITS)	06/21/77-06/21/77	0	1	
TUZI0036	No	00400	PH (STANDARD UNITS)	02/12/80-12/09/80	0	12	
TUZI0040	No	00400	PH (STANDARD UNITS)	10/29/58-10/29/58	0	1	
TUZI0042	Yes	00400	PH (STANDARD UNITS)	08/18/59-04/06/66	6	5	
TUZI0046	No	00400	PH (STANDARD UNITS)	02/12/80-12/09/80	0	11	
TUZI0047	No	00400	PH (STANDARD UNITS)	06/12/79-06/12/79	0	1	
TUZI0061	No	00400	PH (STANDARD UNITS)	02/25/81-02/25/81	0	1	
TUZI0066	No	00400	PH (STANDARD UNITS)	02/12/80-04/29/83	3	14	
TUZI0068	No	00400	PH (STANDARD UNITS)	02/12/80-12/09/80	0	12	
TUZI0070	No	00400	PH (STANDARD UNITS)	02/12/80-12/09/80	0	12	
TUZI0071	No	00400	PH (STANDARD UNITS)	02/12/80-12/09/80	0	13	
TUZI0075	Yes	00400	PH (STANDARD UNITS)	07/08/78-07/08/78	0	1	
TUZI0081	No	00400	PH (STANDARD UNITS)	02/08/78-02/08/78	0	1	
TUZI0083	Yes	00400	PH (STANDARD UNITS)	10/31/79-10/31/79	0	1	
TUZI0088	No	00400	PH (STANDARD UNITS)	07/19/79-04/30/80	0	4	
TUZI0090	No	00400	PH (STANDARD UNITS)	02/25/81-02/25/81	0	1	
TUZI0097	No	00400	PH (STANDARD UNITS)	12/19/74-01/08/75	0	2	
TUZI0098	No	00400	PH (STANDARD UNITS)	03/24/76-07/23/96	20	173	T,A,S
TUZI0101	No	00400	PH (STANDARD UNITS)	07/02/91-07/02/91	0	1	
TUZI0102	No	00400	PH (STANDARD UNITS)	01/30/73-01/30/73	0	1	
TUZI0103	No	00400	PH (STANDARD UNITS)	04/26/77-04/26/77	0	1	
TUZI0104	No	00400	PH (STANDARD UNITS)	07/02/91-07/02/91	0	1	
TUZI0105	No	00400	PH (STANDARD UNITS)	03/23/78-03/23/78	0	1	
TUZI0108	No	00400	PH (STANDARD UNITS)	07/04/91-07/04/91	0	1	
TUZI0110	No	00400	PH (STANDARD UNITS)	07/21/78-07/21/78	0	1	
TUZI0112	No	00400	PH (STANDARD UNITS)	08/01/94-08/01/94	0	1	
TUZI0115	No	00400	PH (STANDARD UNITS)	06/08/77-06/08/77	0	1	
TUZI0002	No	00403	PH, LAB, STANDARD UNITS SU	07/21/93-07/21/93	0	1	
TUZI0006	No	00403	PH, LAB, STANDARD UNITS SU	07/20/93-07/20/93	0	1	
TUZI0009	No	00403	PH, LAB, STANDARD UNITS SU	01/30/91-02/13/91	0	2	
TUZI0010	No	00403	PH, LAB, STANDARD UNITS SU	04/15/80-05/21/80	0	2	
TUZI0011	No	00403	PH, LAB, STANDARD UNITS SU	02/12/80-05/21/80	0	4	
TUZI0012	No	00403	PH, LAB, STANDARD UNITS SU	02/12/80-05/21/80	0	4	
TUZI0014	No	00403	PH, LAB, STANDARD UNITS SU	07/26/93-07/26/93	0	1	
TUZI0015	No	00403	PH, LAB, STANDARD UNITS SU	02/08/73-02/08/73	0	1	
TUZI0018	No	00403	PH, LAB, STANDARD UNITS SU	08/09/73-08/22/73	0	3	
TUZI0023	No	00403	PH, LAB, STANDARD UNITS SU	12/06/88-12/06/88	0	1	
TUZI0026	Yes	00403	PH, LAB, STANDARD UNITS SU	12/06/88-12/06/88	0	1	
TUZI0027	Yes	00403	PH, LAB, STANDARD UNITS SU	12/06/88-12/06/88	0	1	
TUZI0029	Yes	00403	PH, LAB, STANDARD UNITS SU	12/06/88-12/06/88	0	1	
TUZI0033	Yes	00403	PH, LAB, STANDARD UNITS SU	12/06/88-12/06/88	0	1	
TUZI0036	No	00403	PH, LAB, STANDARD UNITS SU	09/01/76-05/20/80	3	7	
TUZI0043	No	00403	PH, LAB, STANDARD UNITS SU	01/30/73-08/22/73	0	5	
TUZI0044	No	00403	PH, LAB, STANDARD UNITS SU	02/08/73-02/08/73	0	1	
TUZI0045	No	00403	PH, LAB, STANDARD UNITS SU	02/08/73-02/08/73	0	1	
TUZI0046	No	00403	PH, LAB, STANDARD UNITS SU	01/26/73-04/16/80	7	9	
TUZI0051	No	00403	PH, LAB, STANDARD UNITS SU	11/15/88-01/07/93	4	31	
TUZI0065	No	00403	PH, LAB, STANDARD UNITS SU	01/30/73-06/13/79	6	3	
TUZI0066	No	00403	PH, LAB, STANDARD UNITS SU	02/12/80-04/29/83	3	6	
TUZI0068	No	00403	PH, LAB, STANDARD UNITS SU	02/12/80-05/20/80	0	3	
TUZI0069	No	00403	PH, LAB, STANDARD UNITS SU	02/25/88-10/25/88	0	4	
TUZI0070	No	00403	PH, LAB, STANDARD UNITS SU	02/12/80-05/20/80	0	4	
TUZI0071	No	00403	PH, LAB, STANDARD UNITS SU	08/09/73-05/20/80	6	8	
TUZI0088	No	00403	PH, LAB, STANDARD UNITS SU	07/19/79-07/19/79	0	1	
TUZI0096	No	00403	PH, LAB, STANDARD UNITS SU	04/26/90-07/24/91	1	6	
TUZI0097	No	00403	PH, LAB, STANDARD UNITS SU	02/26/75-12/29/76	1	2	
TUZI0098	No	00403	PH, LAB, STANDARD UNITS SU	01/21/81-07/23/96	15	134	A
TUZI0100	No	00403	PH, LAB, STANDARD UNITS SU	10/10/74-09/09/76	1	4	
TUZI0101	No	00403	PH, LAB, STANDARD UNITS SU	07/02/91-07/02/91	0	1	
TUZI0102	No	00403	PH, LAB, STANDARD UNITS SU	01/26/73-09/09/76	3	8	
TUZI0104	No	00403	PH, LAB, STANDARD UNITS SU	07/02/91-07/02/91	0	1	
TUZI0106	No	00403	PH, LAB, STANDARD UNITS SU	01/26/73-09/09/76	3	9	
TUZI0108	No	00403	PH, LAB, STANDARD UNITS SU	07/04/91-07/04/91	0	1	
TUZI0002	No	00405	CARBON DIOXIDE (MG/L AS CO2)	02/24/78-04/04/78	0	2	
TUZI0004	No	00405	CARBON DIOXIDE (MG/L AS CO2)	12/20/77-12/20/77	0	1	
TUZI0005	No	00405	CARBON DIOXIDE (MG/L AS CO2)	10/24/58-03/19/73	14	2	
TUZI0006	No	00405	CARBON DIOXIDE (MG/L AS CO2)	07/08/77-07/08/77	0	1	
TUZI0008	No	00405	CARBON DIOXIDE (MG/L AS CO2)	02/13/73-02/13/73	0	1	
TUZI0014	No	00405	CARBON DIOXIDE (MG/L AS CO2)	10/09/58-02/09/78	19	4	
TUZI0016	No	00405	CARBON DIOXIDE (MG/L AS CO2)	10/15/58-10/15/58	0	1	
TUZI0021	No	00405	CARBON DIOXIDE (MG/L AS CO2)	05/04/78-05/04/78	0	1	
TUZI0031	Yes	00405	CARBON DIOXIDE (MG/L AS CO2)	06/12/79-06/12/79	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

**Station/Parameter Period of Record Tabulation
From 10/10/51 To 07/23/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
TUZI0032	Yes	00405	CARBON DIOXIDE (MG/L AS CO2)	06/21/77-06/21/77	0	1	
TUZI0040	No	00405	CARBON DIOXIDE (MG/L AS CO2)	10/29/58-10/29/58	0	1	
TUZI0042	Yes	00405	CARBON DIOXIDE (MG/L AS CO2)	08/18/59-04/06/66	6	5	
TUZI0047	No	00405	CARBON DIOXIDE (MG/L AS CO2)	06/12/79-06/12/79	0	1	
TUZI0081	No	00405	CARBON DIOXIDE (MG/L AS CO2)	02/08/78-02/08/78	0	1	
TUZI0083	Yes	00405	CARBON DIOXIDE (MG/L AS CO2)	10/31/79-10/31/79	0	1	
TUZI0088	No	00405	CARBON DIOXIDE (MG/L AS CO2)	10/31/79-10/31/79	0	1	
TUZI0098	No	00405	CARBON DIOXIDE (MG/L AS CO2)	03/24/76-08/09/79	3	38	
TUZI0103	No	00405	CARBON DIOXIDE (MG/L AS CO2)	04/26/77-04/26/77	0	1	
TUZI0115	No	00405	CARBON DIOXIDE (MG/L AS CO2)	06/08/77-06/08/77	0	1	
TUZI0009	No	00406	PH, FIELD, STANDARD UNITS SU	03/28/90-09/12/91	1	14	
TUZI0023	No	00406	PH, FIELD, STANDARD UNITS SU	12/06/88-12/06/88	0	1	
TUZI0026	Yes	00406	PH, FIELD, STANDARD UNITS SU	12/06/88-12/06/88	0	1	
TUZI0027	Yes	00406	PH, FIELD, STANDARD UNITS SU	12/06/88-12/06/88	0	1	
TUZI0029	Yes	00406	PH, FIELD, STANDARD UNITS SU	12/06/88-12/06/88	0	1	
TUZI0033	Yes	00406	PH, FIELD, STANDARD UNITS SU	12/06/88-12/06/88	0	1	
TUZI0051	No	00406	PH, FIELD, STANDARD UNITS SU	11/15/88-01/07/93	4	29	
TUZI0069	No	00406	PH, FIELD, STANDARD UNITS SU	02/25/88-10/25/88	0	4	
TUZI0096	No	00406	PH, FIELD, STANDARD UNITS SU	04/26/90-07/24/91	1	5	
TUZI0001	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/07/78-07/07/78	0	1	
TUZI0002	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	02/24/78-07/21/93	15	3	
TUZI0003	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	02/24/78-02/24/78	0	1	
TUZI0004	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/20/77-12/20/77	0	1	
TUZI0005	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/24/58-07/26/74	15	3	
TUZI0006	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/08/77-07/20/93	16	2	
TUZI0007	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/08/78-07/08/78	0	1	
TUZI0008	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	02/13/73-02/13/73	0	1	
TUZI0010	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/15/80-05/21/80	0	2	
TUZI0011	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	02/12/80-05/21/80	0	4	
TUZI0012	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	02/12/80-05/21/80	0	4	
TUZI0014	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/09/58-07/26/93	34	5	
TUZI0015	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	02/08/73-02/08/73	0	1	
TUZI0016	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/15/58-10/15/58	0	1	
TUZI0018	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/09/73-08/22/73	0	3	
TUZI0021	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/04/78-05/04/78	0	1	
TUZI0023	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/06/88-12/06/88	0	1	
TUZI0026	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/06/88-12/06/88	0	1	
TUZI0027	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/06/88-12/06/88	0	1	
TUZI0029	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/06/88-12/06/88	0	1	
TUZI0031	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/12/79-06/12/79	0	1	
TUZI0032	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/21/77-06/21/77	0	1	
TUZI0033	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/06/88-12/06/88	0	1	
TUZI0036	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/01/76-05/20/80	3	7	
TUZI0040	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/29/58-10/29/58	0	1	
TUZI0042	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/18/59-08/11/75	15	6	
TUZI0043	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/30/73-08/22/73	0	5	
TUZI0044	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	02/08/73-02/08/73	0	1	
TUZI0045	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	02/08/73-02/08/73	0	1	
TUZI0046	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/26/73-04/16/80	7	9	
TUZI0047	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/12/79-06/12/79	0	1	
TUZI0051	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/15/88-01/07/93	4	30	
TUZI0065	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/30/73-06/13/79	6	3	
TUZI0066	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	02/12/80-04/29/83	3	6	
TUZI0068	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	02/12/80-05/20/80	0	4	
TUZI0069	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	02/25/88-10/25/88	0	4	
TUZI0070	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	02/12/80-05/20/80	0	4	
TUZI0071	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/09/73-05/20/80	6	8	
TUZI0075	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/08/78-07/08/78	0	1	
TUZI0081	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	02/08/78-02/08/78	0	1	
TUZI0083	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/31/79-10/31/79	0	1	
TUZI0085	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	02/07/73-02/07/73	0	1	
TUZI0088	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/31/79-04/30/80	0	3	
TUZI0096	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/26/90-07/24/91	1	6	
TUZI0097	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	02/26/75-12/29/76	1	2	
TUZI0098	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/24/76-04/02/91	15	108	
TUZI0100	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/31/76-09/09/76	0	3	
TUZI0102	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/26/73-09/09/76	3	8	
TUZI0103	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/26/77-04/26/77	0	1	
TUZI0105	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/23/78-03/23/78	0	1	
TUZI0106	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/26/73-09/09/76	3	9	
TUZI0109	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/10/51-12/13/52	1	3	
TUZI0110	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/21/78-07/21/78	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation **From 10/10/51 To 07/23/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
TUZI0111	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/10/51-12/13/52	1	3	
TUZI0112	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/10/51-08/01/94	42	4	
TUZI0114	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/10/51-10/10/51	0	1	
TUZI0115	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/08/77-06/08/77	0	1	
TUZI0010	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	04/15/80-05/21/80	0	2	
TUZI0011	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	02/12/80-05/21/80	0	4	
TUZI0012	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	02/12/80-05/21/80	0	4	
TUZI0023	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	12/06/88-12/06/88	0	1	
TUZI0026	Yes	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	12/06/88-12/06/88	0	1	
TUZI0027	Yes	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	12/06/88-12/06/88	0	1	
TUZI0029	Yes	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	12/06/88-12/06/88	0	1	
TUZI0033	Yes	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	12/06/88-12/06/88	0	1	
TUZI0036	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	09/01/76-05/20/80	3	7	
TUZI0046	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	02/12/80-04/16/80	0	3	
TUZI0051	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	11/15/88-01/07/93	4	30	
TUZI0065	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	06/13/79-06/13/79	0	1	
TUZI0066	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	02/12/80-04/29/83	3	6	
TUZI0068	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	02/12/80-05/20/80	0	4	
TUZI0069	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	02/25/88-10/25/88	0	4	
TUZI0070	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	02/12/80-05/20/80	0	4	
TUZI0071	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	02/12/80-05/20/80	0	5	
TUZI0096	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	04/26/90-07/24/91	1	6	
TUZI0097	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	02/26/75-12/29/76	1	2	
TUZI0100	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	08/31/76-09/09/76	0	3	
TUZI0102	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	08/31/76-09/09/76	0	3	
TUZI0106	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	08/31/76-09/09/76	0	3	
TUZI0098	No	00417	ALKALINITY, FIXED ENDPOINT TITRATION, USGS LAB MG/L	12/23/86-12/23/86	0	1	
TUZI0098	No	00419	ALKALINITY, CARBONATE, INCREMENTAL TITR FIELD MG/L	10/22/86-02/15/89	2	2	
TUZI0002	No	00440	BICARBONATE ION (MG/L AS HCO3)	02/24/78-04/04/78	0	2	
TUZI0003	No	00440	BICARBONATE ION (MG/L AS HCO3)	02/24/78-02/24/78	0	1	
TUZI0004	No	00440	BICARBONATE ION (MG/L AS HCO3)	12/20/77-12/20/77	0	1	
TUZI0005	No	00440	BICARBONATE ION (MG/L AS HCO3)	10/24/58-07/26/74	15	3	
TUZI0006	No	00440	BICARBONATE ION (MG/L AS HCO3)	07/08/77-07/08/77	0	1	
TUZI0008	No	00440	BICARBONATE ION (MG/L AS HCO3)	02/13/73-02/13/73	0	1	
TUZI0014	No	00440	BICARBONATE ION (MG/L AS HCO3)	10/09/58-02/09/78	19	4	
TUZI0016	No	00440	BICARBONATE ION (MG/L AS HCO3)	10/15/58-10/15/58	0	1	
TUZI0021	No	00440	BICARBONATE ION (MG/L AS HCO3)	05/04/78-05/04/78	0	1	
TUZI0023	No	00440	BICARBONATE ION (MG/L AS HCO3)	12/06/88-12/06/88	0	1	
TUZI0026	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	12/06/88-12/06/88	0	1	
TUZI0027	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	12/06/88-12/06/88	0	1	
TUZI0029	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	12/06/88-12/06/88	0	1	
TUZI0031	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	06/12/79-06/12/79	0	1	
TUZI0032	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	06/21/77-06/21/77	0	1	
TUZI0033	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	12/06/88-12/06/88	0	1	
TUZI0040	No	00440	BICARBONATE ION (MG/L AS HCO3)	10/29/58-10/29/58	0	1	
TUZI0042	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	08/18/59-08/11/75	15	6	
TUZI0047	No	00440	BICARBONATE ION (MG/L AS HCO3)	06/12/79-06/12/79	0	1	
TUZI0051	No	00440	BICARBONATE ION (MG/L AS HCO3)	11/15/88-11/05/92	3	30	
TUZI0069	No	00440	BICARBONATE ION (MG/L AS HCO3)	02/25/88-10/25/88	0	4	
TUZI0081	No	00440	BICARBONATE ION (MG/L AS HCO3)	02/08/78-02/08/78	0	1	
TUZI0096	No	00440	BICARBONATE ION (MG/L AS HCO3)	04/26/90-07/24/91	1	6	
TUZI0098	No	00440	BICARBONATE ION (MG/L AS HCO3)	03/24/76-11/17/88	12	60	
TUZI0103	No	00440	BICARBONATE ION (MG/L AS HCO3)	04/26/77-04/26/77	0	1	
TUZI0109	No	00440	BICARBONATE ION (MG/L AS HCO3)	10/10/51-12/13/52	1	3	
TUZI0111	No	00440	BICARBONATE ION (MG/L AS HCO3)	10/10/51-12/13/52	1	3	
TUZI0112	No	00440	BICARBONATE ION (MG/L AS HCO3)	10/10/51-12/13/52	1	3	
TUZI0114	No	00440	BICARBONATE ION (MG/L AS HCO3)	10/10/51-10/10/51	0	1	
TUZI0115	No	00440	BICARBONATE ION (MG/L AS HCO3)	06/08/77-06/08/77	0	1	
TUZI0002	No	00445	CARBONATE ION (MG/L AS CO3)	02/24/78-04/04/78	0	2	
TUZI0004	No	00445	CARBONATE ION (MG/L AS CO3)	12/20/77-12/20/77	0	1	
TUZI0005	No	00445	CARBONATE ION (MG/L AS CO3)	10/24/58-03/19/73	14	2	
TUZI0006	No	00445	CARBONATE ION (MG/L AS CO3)	07/08/77-07/08/77	0	1	
TUZI0008	No	00445	CARBONATE ION (MG/L AS CO3)	02/13/73-02/13/73	0	1	
TUZI0014	No	00445	CARBONATE ION (MG/L AS CO3)	10/09/58-02/09/78	19	4	
TUZI0016	No	00445	CARBONATE ION (MG/L AS CO3)	10/15/58-10/15/58	0	1	
TUZI0021	No	00445	CARBONATE ION (MG/L AS CO3)	05/04/78-05/04/78	0	1	
TUZI0023	No	00445	CARBONATE ION (MG/L AS CO3)	12/06/88-12/06/88	0	1	
TUZI0026	Yes	00445	CARBONATE ION (MG/L AS CO3)	12/06/88-12/06/88	0	1	
TUZI0027	Yes	00445	CARBONATE ION (MG/L AS CO3)	12/06/88-12/06/88	0	1	
TUZI0029	Yes	00445	CARBONATE ION (MG/L AS CO3)	12/06/88-12/06/88	0	1	
TUZI0031	Yes	00445	CARBONATE ION (MG/L AS CO3)	06/12/79-06/12/79	0	1	
TUZI0032	Yes	00445	CARBONATE ION (MG/L AS CO3)	06/21/77-06/21/77	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation **From 10/10/51 To 07/23/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
TUZI0033	Yes	00445	CARBONATE ION (MG/L AS CO3)	12/06/88-12/06/88	0	1	
TUZI0040	No	00445	CARBONATE ION (MG/L AS CO3)	10/29/58-10/29/58	0	1	
TUZI0042	Yes	00445	CARBONATE ION (MG/L AS CO3)	08/18/59-04/06/66	6	5	
TUZI0047	No	00445	CARBONATE ION (MG/L AS CO3)	06/12/79-06/12/79	0	1	
TUZI0051	No	00445	CARBONATE ION (MG/L AS CO3)	11/15/88-11/05/92	3	29	
TUZI0069	No	00445	CARBONATE ION (MG/L AS CO3)	02/25/88-10/25/88	0	4	
TUZI0081	No	00445	CARBONATE ION (MG/L AS CO3)	02/08/78-02/08/78	0	1	
TUZI0096	No	00445	CARBONATE ION (MG/L AS CO3)	04/26/90-07/24/91	1	6	
TUZI0098	No	00445	CARBONATE ION (MG/L AS CO3)	03/24/76-11/17/88	12	58	
TUZI0103	No	00445	CARBONATE ION (MG/L AS CO3)	04/26/77-04/26/77	0	1	
TUZI0109	No	00445	CARBONATE ION (MG/L AS CO3)	10/10/51-12/13/52	1	3	
TUZI0111	No	00445	CARBONATE ION (MG/L AS CO3)	02/16/52-12/13/52	0	2	
TUZI0115	No	00445	CARBONATE ION (MG/L AS CO3)	06/08/77-06/08/77	0	1	
TUZI0098	No	00447	CARBONATE,INCREMENTAL TITRATION,(CO3) FIELD MG/L	10/22/86-10/22/86	0	1	
TUZI0098	No	00450	BICARBONATE,INCREMENTAL TITRATION,(HCO3) FIELDMG/L	10/22/86-10/22/86	0	1	
TUZI0098	No	00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	10/22/86-07/23/96	9	102	
TUZI0101	No	00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	07/02/91-07/02/91	0	1	
TUZI0108	No	00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	07/04/91-07/04/91	0	1	
TUZI0098	No	00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	10/22/86-07/23/96	9	102	
TUZI0101	No	00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	07/02/91-07/02/91	0	1	
TUZI0104	No	00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	07/02/91-07/02/91	0	1	
TUZI0108	No	00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	07/04/91-07/04/91	0	1	
TUZI0010	No	00500	RESIDUE, TOTAL (MG/L)	04/15/80-05/21/80	0	2	
TUZI0011	No	00500	RESIDUE, TOTAL (MG/L)	02/12/80-05/21/80	0	4	
TUZI0012	No	00500	RESIDUE, TOTAL (MG/L)	02/12/80-05/21/80	0	4	
TUZI0036	No	00500	RESIDUE, TOTAL (MG/L)	02/12/80-05/20/80	0	4	
TUZI0046	No	00500	RESIDUE, TOTAL (MG/L)	02/12/80-04/16/80	0	3	
TUZI0065	No	00500	RESIDUE, TOTAL (MG/L)	06/13/79-06/13/79	0	1	
TUZI0066	No	00500	RESIDUE, TOTAL (MG/L)	02/12/80-04/29/83	3	6	
TUZI0068	No	00500	RESIDUE, TOTAL (MG/L)	02/12/80-05/20/80	0	4	
TUZI0070	No	00500	RESIDUE, TOTAL (MG/L)	02/12/80-05/20/80	0	4	
TUZI0071	No	00500	RESIDUE, TOTAL (MG/L)	02/12/80-05/20/80	0	5	
TUZI0097	No	00500	RESIDUE, TOTAL (MG/L)	12/29/76-12/29/76	0	1	
TUZI0018	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/09/73-08/22/73	0	3	
TUZI0036	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	09/01/76-09/10/76	0	3	
TUZI0043	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	01/30/73-08/22/73	0	5	
TUZI0045	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	02/08/73-02/08/73	0	1	
TUZI0046	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/09/73-08/22/73	0	3	
TUZI0065	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	01/30/73-01/30/73	0	1	
TUZI0071	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/09/73-08/22/73	0	3	
TUZI0088	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	07/19/79-07/19/79	0	1	
TUZI0097	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	02/26/75-02/26/75	0	1	
TUZI0100	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/31/76-09/09/76	0	3	
TUZI0102	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	01/26/73-09/09/76	3	8	
TUZI0106	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/07/73-09/09/76	3	6	
TUZI0083	Yes	00520	RESIDUE, VOLATILE FILTRABLE (MG/L)	10/31/79-10/31/79	0	1	
TUZI0088	No	00520	RESIDUE, VOLATILE FILTRABLE (MG/L)	10/31/79-04/30/80	0	3	
TUZI0009	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/28/90-09/12/91	1	16	
TUZI0010	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/15/80-04/15/80	0	1	
TUZI0011	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/18/80-03/18/80	0	1	
TUZI0012	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/18/80-03/18/80	0	1	
TUZI0023	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/06/88-12/06/88	0	1	
TUZI0026	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/06/88-12/06/88	0	1	
TUZI0027	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/06/88-12/06/88	0	1	
TUZI0029	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/06/88-12/06/88	0	1	
TUZI0033	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/06/88-12/06/88	0	1	
TUZI0036	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/01/76-03/18/80	3	4	
TUZI0046	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/18/80-03/18/80	0	1	
TUZI0051	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/15/88-01/07/93	4	31	
TUZI0066	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/19/80-03/19/80	0	1	
TUZI0068	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/18/80-03/18/80	0	1	
TUZI0069	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/25/88-10/25/88	0	4	
TUZI0070	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/18/80-03/18/80	0	1	
TUZI0071	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/18/80-03/18/80	0	1	
TUZI0096	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/26/90-07/24/91	1	6	
TUZI0098	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/24/79-07/23/96	16	134	A
TUZI0100	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/02/76-09/09/76	0	2	
TUZI0102	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/09/76-09/09/76	0	1	
TUZI0106	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/07/73-02/07/73	0	1	
TUZI0036	No	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	09/01/76-09/10/76	0	3	
TUZI0100	No	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	09/02/76-09/09/76	0	2	
TUZI0102	No	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	09/09/76-09/09/76	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

**Station/Parameter Period of Record Tabulation
From 10/10/51 To 07/23/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
TUZI0098	No	00572	BIOMASS, PERIPHYTON (GRAMS PER SQUARE METER)	06/11/79-06/11/79	0	1	
TUZI0098	No	00573	BIOMASS, PERIPHYTON, DRY WEIGHT TOTAL (G/M2)	06/11/79-06/11/79	0	1	
TUZI0010	No	00600	NITROGEN, TOTAL (MG/L AS N)	06/18/80-12/10/80	0	8	
TUZI0011	No	00600	NITROGEN, TOTAL (MG/L AS N)	06/18/80-12/10/80	0	8	
TUZI0012	No	00600	NITROGEN, TOTAL (MG/L AS N)	06/18/80-12/10/80	0	8	
TUZI0032	Yes	00600	NITROGEN, TOTAL (MG/L AS N)	06/21/77-06/21/77	0	1	
TUZI0036	No	00600	NITROGEN, TOTAL (MG/L AS N)	06/17/80-12/09/80	0	8	
TUZI0046	No	00600	NITROGEN, TOTAL (MG/L AS N)	06/17/80-12/09/80	0	8	
TUZI0066	No	00600	NITROGEN, TOTAL (MG/L AS N)	06/17/80-12/09/80	0	8	
TUZI0068	No	00600	NITROGEN, TOTAL (MG/L AS N)	06/18/80-12/09/80	0	8	
TUZI0070	No	00600	NITROGEN, TOTAL (MG/L AS N)	06/17/80-12/09/80	0	8	
TUZI0071	No	00600	NITROGEN, TOTAL (MG/L AS N)	06/17/80-12/09/80	0	9	
TUZI0098	No	00600	NITROGEN, TOTAL (MG/L AS N)	03/24/76-02/01/83	6	57	
TUZI0098	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	03/16/81-03/16/81	0	1	
TUZI0002	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	07/21/93-07/21/93	0	1	
TUZI0006	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	07/20/93-07/20/93	0	1	
TUZI0014	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	07/26/93-07/26/93	0	1	
TUZI0112	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	08/01/94-08/01/94	0	1	
TUZI0023	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/06/88-12/06/88	0	1	
TUZI0026	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/06/88-12/06/88	0	1	
TUZI0027	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/06/88-12/06/88	0	1	
TUZI0029	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/06/88-12/06/88	0	1	
TUZI0033	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/06/88-12/06/88	0	1	
TUZI0051	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/15/88-01/07/93	4	27	
TUZI0069	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/25/88-10/25/88	0	4	
TUZI0083	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/31/79-10/31/79	0	1	
TUZI0088	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/19/79-04/30/80	0	4	
TUZI0096	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/26/90-07/24/91	1	5	
TUZI0098	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/16/81-07/23/96	15	91	
TUZI0002	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	07/21/93-07/21/93	0	1	
TUZI0006	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	07/20/93-07/20/93	0	1	
TUZI0014	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	07/26/93-07/26/93	0	1	
TUZI0098	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	03/24/76-01/12/77	0	2	
TUZI0112	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/01/94-08/01/94	0	1	
TUZI0010	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/15/80-05/21/80	0	2	
TUZI0011	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	02/12/80-05/21/80	0	4	
TUZI0012	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	02/12/80-05/21/80	0	4	
TUZI0015	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	02/08/73-02/08/73	0	1	
TUZI0018	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/09/73-08/22/73	0	3	
TUZI0036	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/01/76-05/20/80	3	7	
TUZI0043	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/22/73-08/22/73	0	1	
TUZI0044	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	02/08/73-02/08/73	0	1	
TUZI0045	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	02/08/73-02/08/73	0	1	
TUZI0046	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	01/26/73-04/16/80	7	6	
TUZI0066	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	02/12/80-04/29/83	3	5	
TUZI0068	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	02/12/80-05/20/80	0	4	
TUZI0070	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	02/12/80-05/20/80	0	4	
TUZI0071	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/22/73-05/20/80	6	6	
TUZI0085	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	02/07/73-02/07/73	0	1	
TUZI0097	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	11/12/74-03/25/75	0	4	
TUZI0098	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/27/90-08/30/94	3	32	
TUZI0100	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/10/74-09/09/76	1	4	
TUZI0102	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	01/26/73-09/09/76	3	5	
TUZI0106	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	01/26/73-09/09/76	3	5	
TUZI0005	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/24/58-07/26/74	15	3	
TUZI0040	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/29/58-10/29/58	0	1	
TUZI0098	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	03/24/76-01/12/77	0	2	
TUZI0109	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/10/51-10/10/51	0	1	
TUZI0111	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/10/51-10/10/51	0	1	
TUZI0088	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/19/79-04/30/80	0	2	
TUZI0010	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/15/80-12/10/80	0	10	
TUZI0011	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	02/12/80-12/10/80	0	12	
TUZI0012	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	02/12/80-12/10/80	0	12	
TUZI0018	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/09/73-08/22/73	0	3	
TUZI0023	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	12/06/88-12/06/88	0	1	
TUZI0026	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	12/06/88-12/06/88	0	1	
TUZI0027	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	12/06/88-12/06/88	0	1	
TUZI0029	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	12/06/88-12/06/88	0	1	
TUZI0032	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/21/77-06/21/77	0	1	
TUZI0033	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	12/06/88-12/06/88	0	1	
TUZI0036	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/01/76-12/09/80	4	15	
TUZI0043	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	01/30/73-08/22/73	0	2	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation **From 10/10/51 To 07/23/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
TUZI0044	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	02/08/73-02/08/73	0	1	
TUZI0046	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	01/30/73-12/09/80	7	14	
TUZI0051	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	11/15/88-01/07/93	4	30	
TUZI0065	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	01/30/73-01/30/73	0	1	
TUZI0066	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	02/12/80-12/09/80	0	13	
TUZI0068	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	02/12/80-12/09/80	0	12	
TUZI0069	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	02/25/88-10/25/88	0	4	
TUZI0070	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	02/12/80-12/09/80	0	11	
TUZI0071	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/22/73-12/09/80	7	15	
TUZI0085	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	02/07/73-02/07/73	0	1	
TUZI0096	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/26/90-07/24/91	1	6	
TUZI0097	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	11/12/74-03/25/75	0	4	
TUZI0098	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/24/76-07/23/96	20	171	T,A,S
TUZI0100	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/10/74-09/09/76	1	4	
TUZI0102	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	01/26/73-09/09/76	3	6	
TUZI0106	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	01/26/73-09/09/76	3	6	
TUZI0010	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/18/80-12/10/80	0	8	
TUZI0011	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/18/80-12/10/80	0	8	
TUZI0012	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/18/80-12/10/80	0	8	
TUZI0023	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	12/06/88-12/06/88	0	1	
TUZI0026	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	12/06/88-12/06/88	0	1	
TUZI0027	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	12/06/88-12/06/88	0	1	
TUZI0029	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	12/06/88-12/06/88	0	1	
TUZI0032	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/21/77-06/21/77	0	1	
TUZI0033	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	12/06/88-12/06/88	0	1	
TUZI0036	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/17/80-12/09/80	0	8	
TUZI0046	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/17/80-12/09/80	0	8	
TUZI0051	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	11/15/88-11/05/92	3	30	
TUZI0066	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/17/80-12/09/80	0	8	
TUZI0068	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/18/80-12/09/80	0	8	
TUZI0069	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	02/25/88-10/25/88	0	4	
TUZI0070	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/17/80-12/09/80	0	8	
TUZI0071	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/17/80-12/09/80	0	9	
TUZI0096	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/26/90-07/24/91	1	6	
TUZI0098	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/24/76-07/23/96	20	162	T,A,S
TUZI0002	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	02/24/78-07/21/93	15	3	
TUZI0003	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	02/24/78-02/24/78	0	1	
TUZI0004	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	12/20/77-12/20/77	0	1	
TUZI0006	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	07/20/93-07/20/93	0	1	
TUZI0014	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	02/09/78-07/26/93	15	2	
TUZI0021	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/04/78-05/04/78	0	1	
TUZI0031	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	06/12/79-06/12/79	0	1	
TUZI0032	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	06/21/77-06/21/77	0	1	
TUZI0047	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	06/12/79-06/12/79	0	1	
TUZI0081	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	02/08/78-02/08/78	0	1	
TUZI0098	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	03/24/76-08/31/83	7	50	
TUZI0103	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/26/77-04/26/77	0	1	
TUZI0112	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/01/94-08/01/94	0	1	
TUZI0115	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	06/08/77-06/08/77	0	1	
TUZI0010	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	06/18/80-12/10/80	0	8	
TUZI0011	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	06/18/80-12/10/80	0	8	
TUZI0012	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	06/18/80-12/10/80	0	8	
TUZI0015	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	02/08/73-02/08/73	0	1	
TUZI0018	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	08/09/73-08/22/73	0	3	
TUZI0036	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	09/01/76-12/09/80	4	11	
TUZI0043	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	01/30/73-08/22/73	0	3	
TUZI0045	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	02/08/73-02/08/73	0	1	
TUZI0046	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	01/26/73-12/09/80	7	12	
TUZI0065	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	01/30/73-01/30/73	0	1	
TUZI0066	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	06/17/80-12/09/80	0	8	
TUZI0068	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	06/18/80-12/09/80	0	8	
TUZI0070	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	06/17/80-12/09/80	0	8	
TUZI0071	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	08/22/73-12/09/80	7	10	
TUZI0083	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	10/31/79-10/31/79	0	1	
TUZI0085	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	02/07/73-02/07/73	0	1	
TUZI0088	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	07/19/79-04/30/80	0	4	
TUZI0097	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	11/12/74-03/25/75	0	4	
TUZI0098	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	04/18/79-06/11/79	0	3	
TUZI0100	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	10/10/74-09/09/76	1	4	
TUZI0102	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	01/26/73-09/09/76	3	6	
TUZI0106	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	01/26/73-09/09/76	3	7	
TUZI0002	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	02/24/78-04/04/78	0	2	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation **From 10/10/51 To 07/23/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
TUZI0003	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	02/24/78-02/24/78	0	1	
TUZI0004	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	12/20/77-12/20/77	0	1	
TUZI0014	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	02/09/78-02/09/78	0	1	
TUZI0021	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	05/04/78-05/04/78	0	1	
TUZI0032	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	06/21/77-06/21/77	0	1	
TUZI0081	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	02/08/78-02/08/78	0	1	
TUZI0098	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	03/24/76-12/01/82	6	47	
TUZI0103	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	04/26/77-04/26/77	0	1	
TUZI0115	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	06/08/77-06/08/77	0	1	
TUZI0010	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/15/80-05/21/80	0	2	
TUZI0011	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	02/12/80-05/21/80	0	4	
TUZI0012	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	02/12/80-05/21/80	0	4	
TUZI0023	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	12/06/88-12/06/88	0	1	
TUZI0026	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	12/06/88-12/06/88	0	1	
TUZI0027	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	12/06/88-12/06/88	0	1	
TUZI0029	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	12/06/88-12/06/88	0	1	
TUZI0032	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/21/77-06/21/77	0	1	
TUZI0033	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	12/06/88-12/06/88	0	1	
TUZI0036	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	02/12/80-05/20/80	0	4	
TUZI0046	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	02/12/80-04/16/80	0	3	
TUZI0051	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/15/88-01/07/93	4	29	
TUZI0066	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	02/12/80-04/29/83	3	6	
TUZI0068	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	02/12/80-05/20/80	0	4	
TUZI0069	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	02/25/88-10/25/88	0	4	
TUZI0070	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	02/12/80-05/20/80	0	4	
TUZI0071	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	02/12/80-05/20/80	0	5	
TUZI0096	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/26/90-07/24/91	1	5	
TUZI0098	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/24/76-07/23/96	20	172	T,A,S
TUZI0001	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/07/78-07/07/78	0	1	
TUZI0007	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/08/78-07/08/78	0	1	
TUZI0075	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/08/78-07/08/78	0	1	
TUZI0105	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	03/23/78-03/23/78	0	1	
TUZI0110	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/21/78-07/21/78	0	1	
TUZI0002	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	02/24/78-07/21/93	15	3	
TUZI0003	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	02/24/78-02/24/78	0	1	
TUZI0004	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	12/20/77-12/20/77	0	1	
TUZI0006	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	07/20/93-07/20/93	0	1	
TUZI0014	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	02/09/78-07/26/93	15	2	
TUZI0021	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/04/78-05/04/78	0	1	
TUZI0032	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/21/77-06/21/77	0	1	
TUZI0081	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	02/08/78-02/08/78	0	1	
TUZI0098	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/24/76-08/31/83	7	50	
TUZI0103	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/26/77-04/26/77	0	1	
TUZI0112	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/01/94-08/01/94	0	1	
TUZI0115	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/08/77-06/08/77	0	1	
TUZI0032	Yes	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	06/21/77-06/21/77	0	1	
TUZI0098	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/24/76-10/05/83	7	69	
TUZI0015	No	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	02/08/73-02/08/73	0	1	
TUZI0032	Yes	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	06/21/77-06/21/77	0	1	
TUZI0044	No	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	02/08/73-02/08/73	0	1	
TUZI0045	No	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	02/08/73-02/08/73	0	1	
TUZI0098	No	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	03/24/76-10/24/79	3	41	
TUZI0002	No	00900	HARDNESS, TOTAL (MG/L AS CaCO3)	02/24/78-04/04/78	0	2	
TUZI0003	No	00900	HARDNESS, TOTAL (MG/L AS CaCO3)	02/24/78-02/24/78	0	1	
TUZI0004	No	00900	HARDNESS, TOTAL (MG/L AS CaCO3)	12/20/77-12/20/77	0	1	
TUZI0005	No	00900	HARDNESS, TOTAL (MG/L AS CaCO3)	10/24/58-07/26/74	15	3	
TUZI0006	No	00900	HARDNESS, TOTAL (MG/L AS CaCO3)	07/08/77-07/08/77	0	1	
TUZI0008	No	00900	HARDNESS, TOTAL (MG/L AS CaCO3)	02/13/73-02/13/73	0	1	
TUZI0010	No	00900	HARDNESS, TOTAL (MG/L AS CaCO3)	04/15/80-05/21/80	0	2	
TUZI0011	No	00900	HARDNESS, TOTAL (MG/L AS CaCO3)	02/12/80-05/21/80	0	4	
TUZI0012	No	00900	HARDNESS, TOTAL (MG/L AS CaCO3)	02/12/80-05/21/80	0	4	
TUZI0014	No	00900	HARDNESS, TOTAL (MG/L AS CaCO3)	10/09/58-02/09/78	19	4	
TUZI0015	No	00900	HARDNESS, TOTAL (MG/L AS CaCO3)	02/08/73-02/08/73	0	1	
TUZI0016	No	00900	HARDNESS, TOTAL (MG/L AS CaCO3)	10/15/58-10/15/58	0	1	
TUZI0018	No	00900	HARDNESS, TOTAL (MG/L AS CaCO3)	08/09/73-08/22/73	0	3	
TUZI0021	No	00900	HARDNESS, TOTAL (MG/L AS CaCO3)	05/04/78-05/04/78	0	1	
TUZI0023	No	00900	HARDNESS, TOTAL (MG/L AS CaCO3)	12/06/88-12/06/88	0	1	
TUZI0026	Yes	00900	HARDNESS, TOTAL (MG/L AS CaCO3)	12/06/88-12/06/88	0	1	
TUZI0027	Yes	00900	HARDNESS, TOTAL (MG/L AS CaCO3)	12/06/88-12/06/88	0	1	
TUZI0029	Yes	00900	HARDNESS, TOTAL (MG/L AS CaCO3)	12/06/88-12/06/88	0	1	
TUZI0031	Yes	00900	HARDNESS, TOTAL (MG/L AS CaCO3)	06/12/79-06/12/79	0	1	
TUZI0032	Yes	00900	HARDNESS, TOTAL (MG/L AS CaCO3)	06/21/77-06/21/77	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

**Station/Parameter Period of Record Tabulation
From 10/10/51 To 07/23/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
TUZI0033	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	12/06/88-12/06/88	0	1	
TUZI0036	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/01/76-05/20/80	3	7	
TUZI0040	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/29/58-10/29/58	0	1	
TUZI0042	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/18/59-08/11/75	15	6	
TUZI0043	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/30/73-08/22/73	0	5	
TUZI0044	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/08/73-02/08/73	0	1	
TUZI0045	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/08/73-02/08/73	0	1	
TUZI0046	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/26/73-04/16/80	7	9	
TUZI0047	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/12/79-06/12/79	0	1	
TUZI0051	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/15/88-01/07/93	4	31	
TUZI0061	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/25/81-02/25/81	0	1	
TUZI0065	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/30/73-02/06/73	0	2	
TUZI0066	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/12/80-04/29/83	3	6	
TUZI0068	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/12/80-05/20/80	0	4	
TUZI0069	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/25/88-10/25/88	0	4	
TUZI0070	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/12/80-05/20/80	0	4	
TUZI0071	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/09/73-05/20/80	6	8	
TUZI0081	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/08/78-02/08/78	0	1	
TUZI0083	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/31/79-10/31/79	0	1	
TUZI0085	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/07/73-02/07/73	0	1	
TUZI0088	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/19/79-04/30/80	0	4	
TUZI0090	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/25/81-02/25/81	0	1	
TUZI0096	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	04/26/90-07/24/91	1	6	
TUZI0097	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/26/75-12/29/76	1	2	
TUZI0098	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/24/76-03/10/83	6	66	
TUZI0100	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/31/76-09/09/76	0	3	
TUZI0102	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/26/73-09/09/76	3	8	
TUZI0103	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	04/26/77-04/26/77	0	1	
TUZI0106	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/26/73-09/09/76	3	9	
TUZI0109	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/10/51-10/10/51	0	1	
TUZI0111	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/10/51-10/10/51	0	1	
TUZI0112	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/10/51-10/10/51	0	1	
TUZI0114	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/10/51-10/10/51	0	1	
TUZI0115	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/08/77-06/08/77	0	1	
TUZI0002	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	02/24/78-04/04/78	0	2	
TUZI0003	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	02/24/78-02/24/78	0	1	
TUZI0004	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	12/20/77-12/20/77	0	1	
TUZI0005	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/24/58-07/26/74	15	3	
TUZI0006	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	07/08/77-07/08/77	0	1	
TUZI0008	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	02/13/73-02/13/73	0	1	
TUZI0014	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/09/58-02/09/78	19	4	
TUZI0016	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/15/58-10/15/58	0	1	
TUZI0021	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/04/78-05/04/78	0	1	
TUZI0031	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	06/12/79-06/12/79	0	1	
TUZI0032	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	06/21/77-06/21/77	0	1	
TUZI0040	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/29/58-10/29/58	0	1	
TUZI0042	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/18/59-08/11/75	15	6	
TUZI0047	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	06/12/79-06/12/79	0	1	
TUZI0081	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	02/08/78-02/08/78	0	1	
TUZI0098	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	03/24/76-08/12/82	6	50	
TUZI0103	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	04/26/77-04/26/77	0	1	
TUZI0109	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/10/51-10/10/51	0	1	
TUZI0111	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/10/51-10/10/51	0	1	
TUZI0114	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/10/51-10/10/51	0	1	
TUZI0115	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	06/08/77-06/08/77	0	1	
TUZI0001	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/07/78-07/07/78	0	1	
TUZI0002	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	02/24/78-07/21/93	15	3	
TUZI0003	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	02/24/78-02/24/78	0	1	
TUZI0004	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	12/20/77-12/20/77	0	1	
TUZI0005	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/24/58-07/26/74	15	3	
TUZI0006	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/08/77-07/20/93	16	2	
TUZI0007	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/08/78-07/08/78	0	1	
TUZI0008	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	02/13/73-02/13/73	0	1	
TUZI0014	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/09/58-07/26/93	34	5	
TUZI0015	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	02/08/73-02/08/73	0	1	
TUZI0016	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/15/58-10/15/58	0	1	
TUZI0018	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/09/73-08/22/73	0	3	
TUZI0021	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/04/78-05/04/78	0	1	
TUZI0031	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/12/79-06/12/79	0	1	
TUZI0032	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/21/77-06/21/77	0	1	
TUZI0040	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/29/58-10/29/58	0	1	
TUZI0042	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/18/59-08/11/75	15	6	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

**Station/Parameter Period of Record Tabulation
From 10/10/51 To 07/23/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
TUZI0043	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	01/30/73-08/22/73	0	5	
TUZI0044	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	02/08/73-02/08/73	0	1	
TUZI0045	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	02/08/73-02/08/73	0	1	
TUZI0046	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	01/26/73-08/22/73	0	6	
TUZI0047	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/12/79-06/12/79	0	1	
TUZI0061	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	02/25/81-02/25/81	0	1	
TUZI0065	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	01/30/73-02/06/73	0	2	
TUZI0071	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/09/73-08/05/80	6	4	
TUZI0075	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/08/78-07/08/78	0	1	
TUZI0081	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	02/08/78-02/08/78	0	1	
TUZI0085	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	02/07/73-02/07/73	0	1	
TUZI0090	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	02/25/81-02/25/81	0	1	
TUZI0097	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	02/26/75-02/26/75	0	1	
TUZI0098	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/24/76-07/23/96	20	174	T,A,S
TUZI0101	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/02/91-07/02/91	0	1	
TUZI0102	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	01/26/73-08/23/73	0	5	
TUZI0103	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	04/26/77-04/26/77	0	1	
TUZI0104	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/02/91-07/02/91	0	1	
TUZI0105	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/23/78-03/23/78	0	1	
TUZI0106	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	01/26/73-08/23/73	0	6	
TUZI0108	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/04/91-07/04/91	0	1	
TUZI0109	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/10/51-10/10/51	0	1	
TUZI0110	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/21/78-07/21/78	0	1	
TUZI0111	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/10/51-10/10/51	0	1	
TUZI0112	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/10/51-10/10/51	0	1	
TUZI0114	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/10/51-10/10/51	0	1	
TUZI0115	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/08/77-06/08/77	0	1	
TUZI0010	No	00916	CALCIUM, TOTAL (MG/L AS CA)	04/15/80-05/21/80	0	2	
TUZI0011	No	00916	CALCIUM, TOTAL (MG/L AS CA)	02/12/80-05/21/80	0	4	
TUZI0012	No	00916	CALCIUM, TOTAL (MG/L AS CA)	02/12/80-05/21/80	0	4	
TUZI0023	No	00916	CALCIUM, TOTAL (MG/L AS CA)	12/06/88-12/06/88	0	1	
TUZI0026	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	12/06/88-12/06/88	0	1	
TUZI0027	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	12/06/88-12/06/88	0	1	
TUZI0029	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	12/06/88-12/06/88	0	1	
TUZI0033	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	12/06/88-12/06/88	0	1	
TUZI0034	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	08/04/93-08/04/93	0	1	
TUZI0036	No	00916	CALCIUM, TOTAL (MG/L AS CA)	09/01/76-05/20/80	3	7	
TUZI0046	No	00916	CALCIUM, TOTAL (MG/L AS CA)	02/12/80-04/16/80	0	3	
TUZI0049	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	08/04/93-08/04/93	0	1	
TUZI0051	No	00916	CALCIUM, TOTAL (MG/L AS CA)	11/15/88-01/07/93	4	31	
TUZI0059	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	08/04/93-08/04/93	0	1	
TUZI0065	No	00916	CALCIUM, TOTAL (MG/L AS CA)	06/13/79-06/13/79	0	1	
TUZI0066	No	00916	CALCIUM, TOTAL (MG/L AS CA)	02/12/80-04/29/83	3	6	
TUZI0067	No	00916	CALCIUM, TOTAL (MG/L AS CA)	08/04/93-08/04/93	0	2	
TUZI0068	No	00916	CALCIUM, TOTAL (MG/L AS CA)	02/12/80-05/20/80	0	4	
TUZI0069	No	00916	CALCIUM, TOTAL (MG/L AS CA)	02/25/88-10/25/88	0	4	
TUZI0070	No	00916	CALCIUM, TOTAL (MG/L AS CA)	02/12/80-05/20/80	0	4	
TUZI0071	No	00916	CALCIUM, TOTAL (MG/L AS CA)	02/12/80-05/20/80	0	5	
TUZI0074	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	08/04/93-08/04/93	0	2	
TUZI0076	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	08/04/93-08/04/93	0	1	
TUZI0077	No	00916	CALCIUM, TOTAL (MG/L AS CA)	08/03/93-08/03/93	0	1	
TUZI0079	No	00916	CALCIUM, TOTAL (MG/L AS CA)	08/04/93-08/04/93	0	2	
TUZI0082	No	00916	CALCIUM, TOTAL (MG/L AS CA)	08/03/93-08/03/93	0	1	
TUZI0083	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	10/31/79-10/31/79	0	1	
TUZI0084	No	00916	CALCIUM, TOTAL (MG/L AS CA)	08/03/93-08/03/93	0	1	
TUZI0087	No	00916	CALCIUM, TOTAL (MG/L AS CA)	08/03/93-08/03/93	0	1	
TUZI0088	No	00916	CALCIUM, TOTAL (MG/L AS CA)	10/31/79-04/30/80	0	3	
TUZI0089	No	00916	CALCIUM, TOTAL (MG/L AS CA)	08/03/93-08/03/93	0	1	
TUZI0096	No	00916	CALCIUM, TOTAL (MG/L AS CA)	04/26/90-07/24/91	1	6	
TUZI0097	No	00916	CALCIUM, TOTAL (MG/L AS CA)	12/29/76-12/29/76	0	1	
TUZI0100	No	00916	CALCIUM, TOTAL (MG/L AS CA)	08/31/76-09/09/76	0	3	
TUZI0102	No	00916	CALCIUM, TOTAL (MG/L AS CA)	08/31/76-09/09/76	0	3	
TUZI0106	No	00916	CALCIUM, TOTAL (MG/L AS CA)	08/31/76-09/09/76	0	3	
TUZI0017	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0019	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0020	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0022	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0024	Yes	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0025	Yes	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0028	Yes	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0030	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0034	Yes	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/04/93-08/04/93	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 10/10/51 To 07/23/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots
TUZI0035	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0037	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0038	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0039	Yes	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0041	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0048	Yes	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0049	Yes	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0050	Yes	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0052	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0053	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0054	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0055	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0056	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0057	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0058	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0059	Yes	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0060	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0063	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0064	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0067	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0072	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0073	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0074	Yes	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0076	Yes	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0077	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0078	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0079	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0080	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0082	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0084	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0086	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0087	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0089	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0092	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0093	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0095	No	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0017	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0019	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0020	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0022	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0024	Yes	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0025	Yes	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0028	Yes	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0030	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0034	Yes	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0035	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0037	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0038	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0039	Yes	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0041	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0048	Yes	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0049	Yes	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0050	Yes	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0052	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0053	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0054	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0055	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0056	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0057	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0058	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0059	Yes	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0060	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0063	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0064	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0067	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0072	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0073	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0074	Yes	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0076	Yes	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0077	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0078	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0079	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/04/93-08/04/93	0	2	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation From 10/10/51 To 07/23/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
TUZI0080	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0082	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0084	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0086	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0087	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0089	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0092	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0093	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0095	No	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0001	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/07/78-07/07/78	0	1	
TUZI0002	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	02/24/78-07/21/93	15	3	
TUZI0003	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	02/24/78-02/24/78	0	1	
TUZI0004	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	12/20/77-12/20/77	0	1	
TUZI0005	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/24/58-07/26/74	15	3	
TUZI0006	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/08/77-07/20/93	16	2	
TUZI0007	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/08/78-07/08/78	0	1	
TUZI0008	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	02/13/73-02/13/73	0	1	
TUZI0014	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/09/58-07/26/93	34	5	
TUZI0015	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	02/08/73-02/08/73	0	1	
TUZI0016	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/15/58-10/15/58	0	1	
TUZI0018	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/09/73-08/22/73	0	3	
TUZI0021	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/04/78-05/04/78	0	1	
TUZI0031	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/12/79-06/12/79	0	1	
TUZI0032	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/21/77-06/21/77	0	1	
TUZI0040	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/29/58-10/29/58	0	1	
TUZI0042	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/18/59-08/11/75	15	6	
TUZI0043	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/30/73-08/22/73	0	5	
TUZI0044	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	02/08/73-02/08/73	0	1	
TUZI0045	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	02/08/73-02/08/73	0	1	
TUZI0046	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/26/73-08/22/73	0	6	
TUZI0047	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/12/79-06/12/79	0	1	
TUZI0061	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	02/25/81-02/25/81	0	1	
TUZI0065	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/30/73-02/06/73	0	2	
TUZI0071	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/09/73-08/05/80	6	4	
TUZI0075	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/08/78-07/08/78	0	1	
TUZI0081	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	02/08/78-02/08/78	0	1	
TUZI0085	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	02/07/73-02/07/73	0	1	
TUZI0090	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	02/25/81-02/25/81	0	1	
TUZI0097	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	02/26/75-02/26/75	0	1	
TUZI0098	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/24/76-07/23/96	20	174	T,A,S
TUZI0101	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/02/91-07/02/91	0	1	
TUZI0102	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/26/73-08/23/73	0	5	
TUZI0103	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	04/26/77-04/26/77	0	1	
TUZI0104	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/02/91-07/02/91	0	1	
TUZI0105	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/23/78-03/23/78	0	1	
TUZI0106	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/26/73-08/23/73	0	6	
TUZI0108	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/04/91-07/04/91	0	1	
TUZI0109	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/10/51-10/10/51	0	1	
TUZI0110	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/21/78-07/21/78	0	1	
TUZI0111	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/10/51-10/10/51	0	1	
TUZI0112	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/10/51-10/10/51	0	1	
TUZI0114	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/10/51-10/10/51	0	1	
TUZI0115	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/08/77-06/08/77	0	1	
TUZI0010	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	04/15/80-05/21/80	0	2	
TUZI0011	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	02/12/80-05/21/80	0	4	
TUZI0012	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	02/12/80-05/21/80	0	4	
TUZI0023	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	12/06/88-12/06/88	0	1	
TUZI0026	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	12/06/88-12/06/88	0	1	
TUZI0027	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	12/06/88-12/06/88	0	1	
TUZI0029	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	12/06/88-12/06/88	0	1	
TUZI0033	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	12/06/88-12/06/88	0	1	
TUZI0034	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	08/04/93-08/04/93	0	1	
TUZI0036	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	09/01/76-05/20/80	3	7	
TUZI0046	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	02/12/80-04/16/80	0	3	
TUZI0049	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	08/04/93-08/04/93	0	1	
TUZI0051	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	11/15/88-01/07/93	4	31	
TUZI0059	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	08/04/93-08/04/93	0	1	
TUZI0065	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/13/79-06/13/79	0	1	
TUZI0066	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	02/12/80-04/29/83	3	6	
TUZI0067	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	08/04/93-08/04/93	0	2	
TUZI0068	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	02/12/80-05/20/80	0	4	
TUZI0069	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	02/25/88-10/25/88	0	4	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

**Station/Parameter Period of Record Tabulation
From 10/10/51 To 07/23/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
TUZI0070	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	02/12/80-05/20/80	0	4	
TUZI0071	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	02/12/80-05/20/80	0	5	
TUZI0074	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	08/04/93-08/04/93	0	2	
TUZI0076	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	08/04/93-08/04/93	0	1	
TUZI0077	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	08/03/93-08/03/93	0	1	
TUZI0079	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	08/04/93-08/04/93	0	2	
TUZI0082	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	08/03/93-08/03/93	0	1	
TUZI0084	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	08/03/93-08/03/93	0	1	
TUZI0087	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	08/03/93-08/03/93	0	1	
TUZI0088	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/16/80-04/30/80	0	2	
TUZI0089	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	08/03/93-08/03/93	0	1	
TUZI0096	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	04/26/90-07/24/91	1	6	
TUZI0097	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	12/29/76-12/29/76	0	1	
TUZI0100	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	08/31/76-09/09/76	0	3	
TUZI0102	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	08/31/76-09/09/76	0	3	
TUZI0106	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	08/31/76-09/09/76	0	3	
TUZI0010	No	00929	SODIUM, TOTAL (MG/L AS NA)	04/15/80-05/21/80	0	2	
TUZI0011	No	00929	SODIUM, TOTAL (MG/L AS NA)	02/12/80-05/21/80	0	4	
TUZI0012	No	00929	SODIUM, TOTAL (MG/L AS NA)	02/12/80-05/21/80	0	4	
TUZI0023	No	00929	SODIUM, TOTAL (MG/L AS NA)	12/06/88-12/06/88	0	1	
TUZI0026	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	12/06/88-12/06/88	0	1	
TUZI0027	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	12/06/88-12/06/88	0	1	
TUZI0029	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	12/06/88-12/06/88	0	1	
TUZI0033	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	12/06/88-12/06/88	0	1	
TUZI0034	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	08/04/93-08/04/93	0	1	
TUZI0036	No	00929	SODIUM, TOTAL (MG/L AS NA)	09/01/76-05/20/80	3	7	
TUZI0046	No	00929	SODIUM, TOTAL (MG/L AS NA)	02/12/80-04/16/80	0	3	
TUZI0049	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	08/04/93-08/04/93	0	1	
TUZI0051	No	00929	SODIUM, TOTAL (MG/L AS NA)	11/15/88-01/07/93	4	31	
TUZI0059	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	08/04/93-08/04/93	0	1	
TUZI0065	No	00929	SODIUM, TOTAL (MG/L AS NA)	06/13/79-06/13/79	0	1	
TUZI0066	No	00929	SODIUM, TOTAL (MG/L AS NA)	02/12/80-04/29/83	3	6	
TUZI0067	No	00929	SODIUM, TOTAL (MG/L AS NA)	08/04/93-08/04/93	0	2	
TUZI0068	No	00929	SODIUM, TOTAL (MG/L AS NA)	02/12/80-05/20/80	0	4	
TUZI0069	No	00929	SODIUM, TOTAL (MG/L AS NA)	02/25/88-10/25/88	0	4	
TUZI0070	No	00929	SODIUM, TOTAL (MG/L AS NA)	02/12/80-05/20/80	0	4	
TUZI0071	No	00929	SODIUM, TOTAL (MG/L AS NA)	02/12/80-05/20/80	0	5	
TUZI0074	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	08/04/93-08/04/93	0	2	
TUZI0076	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	08/04/93-08/04/93	0	1	
TUZI0077	No	00929	SODIUM, TOTAL (MG/L AS NA)	08/03/93-08/03/93	0	1	
TUZI0079	No	00929	SODIUM, TOTAL (MG/L AS NA)	08/04/93-08/04/93	0	2	
TUZI0082	No	00929	SODIUM, TOTAL (MG/L AS NA)	08/03/93-08/03/93	0	1	
TUZI0083	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	10/31/79-10/31/79	0	1	
TUZI0084	No	00929	SODIUM, TOTAL (MG/L AS NA)	08/03/93-08/03/93	0	1	
TUZI0087	No	00929	SODIUM, TOTAL (MG/L AS NA)	08/03/93-08/03/93	0	1	
TUZI0088	No	00929	SODIUM, TOTAL (MG/L AS NA)	10/31/79-04/30/80	0	3	
TUZI0089	No	00929	SODIUM, TOTAL (MG/L AS NA)	08/03/93-08/03/93	0	1	
TUZI0096	No	00929	SODIUM, TOTAL (MG/L AS NA)	04/26/90-07/24/91	1	6	
TUZI0097	No	00929	SODIUM, TOTAL (MG/L AS NA)	12/29/76-12/29/76	0	1	
TUZI0100	No	00929	SODIUM, TOTAL (MG/L AS NA)	08/31/76-09/09/76	0	3	
TUZI0102	No	00929	SODIUM, TOTAL (MG/L AS NA)	08/31/76-09/09/76	0	3	
TUZI0106	No	00929	SODIUM, TOTAL (MG/L AS NA)	08/31/76-09/09/76	0	3	
TUZI0001	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/07/78-07/07/78	0	1	
TUZI0002	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	02/24/78-07/21/93	15	3	
TUZI0003	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	02/24/78-02/24/78	0	1	
TUZI0004	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	12/20/77-12/20/77	0	1	
TUZI0005	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	03/19/73-07/26/74	1	2	
TUZI0006	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/08/77-07/20/93	16	2	
TUZI0007	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/08/78-07/08/78	0	1	
TUZI0008	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	02/13/73-02/13/73	0	1	
TUZI0014	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/30/73-07/26/93	19	4	
TUZI0015	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	02/08/73-02/08/73	0	1	
TUZI0018	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/09/73-08/22/73	0	3	
TUZI0021	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/04/78-05/04/78	0	1	
TUZI0031	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	06/12/79-06/12/79	0	1	
TUZI0032	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	06/21/77-06/21/77	0	1	
TUZI0042	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	03/04/63-08/11/75	12	5	
TUZI0043	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	01/30/73-08/22/73	0	5	
TUZI0044	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	02/08/73-02/08/73	0	1	
TUZI0045	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	02/08/73-02/08/73	0	1	
TUZI0046	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	01/26/73-08/22/73	0	6	
TUZI0047	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	06/12/79-06/12/79	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

**Station/Parameter Period of Record Tabulation
From 10/10/51 To 07/23/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
TUZI0061	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	02/25/81-02/25/81	0	1	
TUZI0065	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	01/30/73-02/06/73	0	2	
TUZI0071	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/09/73-08/05/80	6	4	
TUZI0075	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/08/78-07/08/78	0	1	
TUZI0081	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	02/08/78-02/08/78	0	1	
TUZI0085	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	02/07/73-02/07/73	0	1	
TUZI0090	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	02/25/81-02/25/81	0	1	
TUZI0097	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	02/26/75-02/26/75	0	1	
TUZI0098	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	03/24/76-07/23/96	20	152	T,A,S
TUZI0101	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/02/91-07/02/91	0	1	
TUZI0102	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	01/26/73-08/23/73	0	5	
TUZI0103	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	04/26/77-04/26/77	0	1	
TUZI0104	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/02/91-07/02/91	0	1	
TUZI0105	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	03/23/78-03/23/78	0	1	
TUZI0106	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	01/26/73-08/23/73	0	6	
TUZI0108	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/04/91-07/04/91	0	1	
TUZI0110	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/21/78-07/21/78	0	1	
TUZI0115	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	06/08/77-06/08/77	0	1	
TUZI0002	No	00931	SODIUM ADSORPTION RATIO	02/24/78-04/04/78	0	2	
TUZI0003	No	00931	SODIUM ADSORPTION RATIO	02/24/78-02/24/78	0	1	
TUZI0004	No	00931	SODIUM ADSORPTION RATIO	12/20/77-12/20/77	0	1	
TUZI0005	No	00931	SODIUM ADSORPTION RATIO	10/24/58-07/26/74	15	3	
TUZI0006	No	00931	SODIUM ADSORPTION RATIO	07/08/77-07/08/77	0	1	
TUZI0008	No	00931	SODIUM ADSORPTION RATIO	02/13/73-02/13/73	0	1	
TUZI0014	No	00931	SODIUM ADSORPTION RATIO	10/09/58-02/09/78	19	4	
TUZI0016	No	00931	SODIUM ADSORPTION RATIO	10/15/58-10/15/58	0	1	
TUZI0021	No	00931	SODIUM ADSORPTION RATIO	05/04/78-05/04/78	0	1	
TUZI0031	Yes	00931	SODIUM ADSORPTION RATIO	06/12/79-06/12/79	0	1	
TUZI0032	Yes	00931	SODIUM ADSORPTION RATIO	06/21/77-06/21/77	0	1	
TUZI0040	No	00931	SODIUM ADSORPTION RATIO	10/29/58-10/29/58	0	1	
TUZI0042	Yes	00931	SODIUM ADSORPTION RATIO	08/18/59-08/11/75	15	6	
TUZI0047	No	00931	SODIUM ADSORPTION RATIO	06/12/79-06/12/79	0	1	
TUZI0061	No	00931	SODIUM ADSORPTION RATIO	02/25/81-02/25/81	0	1	
TUZI0081	No	00931	SODIUM ADSORPTION RATIO	02/08/78-02/08/78	0	1	
TUZI0090	No	00931	SODIUM ADSORPTION RATIO	02/25/81-02/25/81	0	1	
TUZI0098	No	00931	SODIUM ADSORPTION RATIO	03/24/76-03/10/83	6	49	
TUZI0103	No	00931	SODIUM ADSORPTION RATIO	04/26/77-04/26/77	0	1	
TUZI0115	No	00931	SODIUM ADSORPTION RATIO	06/08/77-06/08/77	0	1	
TUZI0002	No	00932	SODIUM, PERCENT	02/24/78-04/04/78	0	2	
TUZI0003	No	00932	SODIUM, PERCENT	02/24/78-02/24/78	0	1	
TUZI0004	No	00932	SODIUM, PERCENT	12/20/77-12/20/77	0	1	
TUZI0005	No	00932	SODIUM, PERCENT	10/24/58-10/24/58	0	1	
TUZI0014	No	00932	SODIUM, PERCENT	10/09/58-02/09/78	19	2	
TUZI0016	No	00932	SODIUM, PERCENT	10/15/58-10/15/58	0	1	
TUZI0021	No	00932	SODIUM, PERCENT	05/04/78-05/04/78	0	1	
TUZI0031	Yes	00932	SODIUM, PERCENT	06/12/79-06/12/79	0	1	
TUZI0032	Yes	00932	SODIUM, PERCENT	06/21/77-06/21/77	0	1	
TUZI0040	No	00932	SODIUM, PERCENT	10/29/58-10/29/58	0	1	
TUZI0042	Yes	00932	SODIUM, PERCENT	08/18/59-04/06/66	6	5	
TUZI0047	No	00932	SODIUM, PERCENT	06/12/79-06/12/79	0	1	
TUZI0081	No	00932	SODIUM, PERCENT	02/08/78-02/08/78	0	1	
TUZI0098	No	00932	SODIUM, PERCENT	03/24/76-03/10/83	6	49	
TUZI0103	No	00932	SODIUM, PERCENT	04/26/77-04/26/77	0	1	
TUZI0109	No	00932	SODIUM, PERCENT	10/10/51-10/10/51	0	1	
TUZI0111	No	00932	SODIUM, PERCENT	10/10/51-10/10/51	0	1	
TUZI0112	No	00932	SODIUM, PERCENT	10/10/51-10/10/51	0	1	
TUZI0114	No	00932	SODIUM, PERCENT	10/10/51-10/10/51	0	1	
TUZI0115	No	00932	SODIUM, PERCENT	06/08/77-06/08/77	0	1	
TUZI0005	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	10/24/58-10/24/58	0	1	
TUZI0014	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	10/09/58-10/09/58	0	1	
TUZI0016	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	10/15/58-10/15/58	0	1	
TUZI0031	Yes	00933	SODIUM,PLUS POTASSIUM (MG/L)	06/12/79-06/12/79	0	1	
TUZI0040	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	10/29/58-10/29/58	0	1	
TUZI0042	Yes	00933	SODIUM,PLUS POTASSIUM (MG/L)	08/18/59-08/18/59	0	1	
TUZI0047	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	06/12/79-06/12/79	0	1	
TUZI0098	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	05/09/79-10/24/79	0	6	
TUZI0109	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	10/10/51-10/10/51	0	1	
TUZI0111	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	10/10/51-10/10/51	0	1	
TUZI0112	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	10/10/51-10/10/51	0	1	
TUZI0114	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	10/10/51-10/10/51	0	1	
TUZI0017	No	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0019	No	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	07/01/92-07/01/92	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

**Station/Parameter Period of Record Tabulation
From 10/10/51 To 07/23/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
TUZI0020	No	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0022	No	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0024	Yes	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0025	Yes	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0028	Yes	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0030	No	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0035	No	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0037	No	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0038	No	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0039	Yes	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0041	No	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0048	Yes	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0050	Yes	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0052	No	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0053	No	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0054	No	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0055	No	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0056	No	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0057	No	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0058	No	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0059	Yes	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0060	No	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0063	No	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0064	No	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0067	No	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0072	No	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0073	No	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0074	Yes	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0076	Yes	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0077	No	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0078	No	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0079	No	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0080	No	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0084	No	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0086	No	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0087	No	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0089	No	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0092	No	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0093	No	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0095	No	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0002	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	02/24/78-07/21/93	15	3	
TUZI0003	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	02/24/78-02/24/78	0	1	
TUZI0004	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	12/20/77-12/20/77	0	1	
TUZI0006	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/20/93-07/20/93	0	1	
TUZI0014	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	02/09/78-07/26/93	15	2	
TUZI0021	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/04/78-05/04/78	0	1	
TUZI0031	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/12/79-06/12/79	0	1	
TUZI0032	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/21/77-06/21/77	0	1	
TUZI0042	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	03/04/63-04/06/66	3	4	
TUZI0047	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/12/79-06/12/79	0	1	
TUZI0081	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	02/08/78-02/08/78	0	1	
TUZI0098	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	03/24/76-07/23/96	20	152	T,A,S
TUZI0101	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/02/91-07/02/91	0	1	
TUZI0103	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/26/77-04/26/77	0	1	
TUZI0104	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/02/91-07/02/91	0	1	
TUZI0108	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/04/91-07/04/91	0	1	
TUZI0115	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/08/77-06/08/77	0	1	
TUZI0010	No	00937	POTASSIUM, TOTAL MG/L AS K)	04/15/80-05/21/80	0	2	
TUZI0011	No	00937	POTASSIUM, TOTAL MG/L AS K)	04/15/80-05/21/80	0	2	
TUZI0012	No	00937	POTASSIUM, TOTAL MG/L AS K)	04/15/80-05/21/80	0	2	
TUZI0023	No	00937	POTASSIUM, TOTAL MG/L AS K)	12/06/88-12/06/88	0	1	
TUZI0026	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	12/06/88-12/06/88	0	1	
TUZI0027	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	12/06/88-12/06/88	0	1	
TUZI0029	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	12/06/88-12/06/88	0	1	
TUZI0033	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	12/06/88-12/06/88	0	1	
TUZI0034	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	08/04/93-08/04/93	0	1	
TUZI0036	No	00937	POTASSIUM, TOTAL MG/L AS K)	04/16/80-05/20/80	0	2	
TUZI0046	No	00937	POTASSIUM, TOTAL MG/L AS K)	04/16/80-04/16/80	0	1	
TUZI0049	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	08/04/93-08/04/93	0	1	
TUZI0051	No	00937	POTASSIUM, TOTAL MG/L AS K)	11/15/88-01/07/93	4	31	
TUZI0059	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	08/04/93-08/04/93	0	1	
TUZI0066	No	00937	POTASSIUM, TOTAL MG/L AS K)	04/15/80-05/20/80	0	2	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

**Station/Parameter Period of Record Tabulation
From 10/10/51 To 07/23/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
TUZI0067	No	00937	POTASSIUM, TOTAL MG/L AS K)	08/04/93-08/04/93	0	2	
TUZI0068	No	00937	POTASSIUM, TOTAL MG/L AS K)	04/15/80-05/20/80	0	2	
TUZI0069	No	00937	POTASSIUM, TOTAL MG/L AS K)	02/25/88-10/25/88	0	4	
TUZI0070	No	00937	POTASSIUM, TOTAL MG/L AS K)	04/15/80-05/20/80	0	2	
TUZI0071	No	00937	POTASSIUM, TOTAL MG/L AS K)	04/15/80-05/20/80	0	3	
TUZI0074	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	08/04/93-08/04/93	0	2	
TUZI0076	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	08/04/93-08/04/93	0	1	
TUZI0077	No	00937	POTASSIUM, TOTAL MG/L AS K)	08/03/93-08/03/93	0	1	
TUZI0079	No	00937	POTASSIUM, TOTAL MG/L AS K)	08/04/93-08/04/93	0	2	
TUZI0082	No	00937	POTASSIUM, TOTAL MG/L AS K)	08/03/93-08/03/93	0	1	
TUZI0083	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	10/31/79-10/31/79	0	1	
TUZI0084	No	00937	POTASSIUM, TOTAL MG/L AS K)	08/03/93-08/03/93	0	1	
TUZI0087	No	00937	POTASSIUM, TOTAL MG/L AS K)	08/03/93-08/03/93	0	1	
TUZI0088	No	00937	POTASSIUM, TOTAL MG/L AS K)	10/31/79-04/30/80	0	3	
TUZI0089	No	00937	POTASSIUM, TOTAL MG/L AS K)	08/03/93-08/03/93	0	1	
TUZI0096	No	00937	POTASSIUM, TOTAL MG/L AS K)	04/26/90-07/24/91	1	6	
TUZI0017	No	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0019	No	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0020	No	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0022	No	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0024	Yes	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0025	Yes	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0028	Yes	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0030	No	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0034	Yes	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0035	No	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0037	No	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0038	No	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0039	Yes	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0041	No	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0048	Yes	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0049	Yes	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0050	Yes	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0052	No	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0053	No	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0054	No	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0055	No	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0056	No	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0057	No	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0058	No	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0059	Yes	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0060	No	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0063	No	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0064	No	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0067	No	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0072	No	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0073	No	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0074	Yes	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0076	Yes	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0077	No	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0078	No	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0079	No	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0080	No	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0084	No	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0086	No	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0087	No	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0089	No	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0092	No	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0093	No	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0095	No	00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0010	No	00939	POTASSIUM,TOTAL RECOVERABLE IN WATER AS K MG/L	05/21/80-05/21/80	0	1	
TUZI0002	No	00940	CHLORIDE,TOTAL IN WATER MG/L	04/04/78-07/21/93	15	2	
TUZI0004	No	00940	CHLORIDE,TOTAL IN WATER MG/L	12/20/77-12/20/77	0	1	
TUZI0005	No	00940	CHLORIDE,TOTAL IN WATER MG/L	10/24/58-07/26/74	15	3	
TUZI0006	No	00940	CHLORIDE,TOTAL IN WATER MG/L	07/08/77-07/20/93	16	2	
TUZI0008	No	00940	CHLORIDE,TOTAL IN WATER MG/L	02/13/73-02/13/73	0	1	
TUZI0010	No	00940	CHLORIDE,TOTAL IN WATER MG/L	04/15/80-12/10/80	0	5	
TUZI0011	No	00940	CHLORIDE,TOTAL IN WATER MG/L	02/12/80-12/10/80	0	7	
TUZI0012	No	00940	CHLORIDE,TOTAL IN WATER MG/L	02/12/80-12/10/80	0	7	
TUZI0014	No	00940	CHLORIDE,TOTAL IN WATER MG/L	10/09/58-07/26/93	34	5	
TUZI0015	No	00940	CHLORIDE,TOTAL IN WATER MG/L	02/08/73-02/08/73	0	1	
TUZI0016	No	00940	CHLORIDE,TOTAL IN WATER MG/L	10/15/58-10/15/58	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

**Station/Parameter Period of Record Tabulation
From 10/10/51 To 07/23/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
TUZI0018	No	00940	CHLORIDE, TOTAL IN WATER MG/L	08/09/73-08/22/73	0	3	
TUZI0021	No	00940	CHLORIDE, TOTAL IN WATER MG/L	05/04/78-05/04/78	0	1	
TUZI0023	No	00940	CHLORIDE, TOTAL IN WATER MG/L	12/06/88-12/06/88	0	1	
TUZI0026	Yes	00940	CHLORIDE, TOTAL IN WATER MG/L	12/06/88-12/06/88	0	1	
TUZI0027	Yes	00940	CHLORIDE, TOTAL IN WATER MG/L	12/06/88-12/06/88	0	1	
TUZI0029	Yes	00940	CHLORIDE, TOTAL IN WATER MG/L	12/06/88-12/06/88	0	1	
TUZI0031	Yes	00940	CHLORIDE, TOTAL IN WATER MG/L	06/12/79-06/12/79	0	1	
TUZI0032	Yes	00940	CHLORIDE, TOTAL IN WATER MG/L	06/21/77-06/21/77	0	1	
TUZI0033	Yes	00940	CHLORIDE, TOTAL IN WATER MG/L	12/06/88-12/06/88	0	1	
TUZI0036	No	00940	CHLORIDE, TOTAL IN WATER MG/L	09/01/76-12/09/80	4	10	
TUZI0040	No	00940	CHLORIDE, TOTAL IN WATER MG/L	10/29/58-10/29/58	0	1	
TUZI0042	Yes	00940	CHLORIDE, TOTAL IN WATER MG/L	08/18/59-08/11/75	15	6	
TUZI0043	No	00940	CHLORIDE, TOTAL IN WATER MG/L	01/30/73-08/22/73	0	5	
TUZI0044	No	00940	CHLORIDE, TOTAL IN WATER MG/L	02/08/73-02/08/73	0	1	
TUZI0045	No	00940	CHLORIDE, TOTAL IN WATER MG/L	02/08/73-02/08/73	0	1	
TUZI0046	No	00940	CHLORIDE, TOTAL IN WATER MG/L	01/26/73-12/09/80	7	12	
TUZI0047	No	00940	CHLORIDE, TOTAL IN WATER MG/L	06/12/79-06/12/79	0	1	
TUZI0051	No	00940	CHLORIDE, TOTAL IN WATER MG/L	11/15/88-01/07/93	4	30	
TUZI0065	No	00940	CHLORIDE, TOTAL IN WATER MG/L	01/30/73-06/13/79	6	3	
TUZI0066	No	00940	CHLORIDE, TOTAL IN WATER MG/L	02/12/80-04/29/83	3	9	
TUZI0068	No	00940	CHLORIDE, TOTAL IN WATER MG/L	02/12/80-12/09/80	0	7	
TUZI0069	No	00940	CHLORIDE, TOTAL IN WATER MG/L	02/25/88-10/25/88	0	4	
TUZI0070	No	00940	CHLORIDE, TOTAL IN WATER MG/L	02/12/80-12/09/80	0	7	
TUZI0071	No	00940	CHLORIDE, TOTAL IN WATER MG/L	08/09/73-12/09/80	7	11	
TUZI0081	No	00940	CHLORIDE, TOTAL IN WATER MG/L	02/08/78-02/08/78	0	1	
TUZI0083	Yes	00940	CHLORIDE, TOTAL IN WATER MG/L	10/31/79-10/31/79	0	1	
TUZI0085	No	00940	CHLORIDE, TOTAL IN WATER MG/L	02/07/73-02/07/73	0	1	
TUZI0088	No	00940	CHLORIDE, TOTAL IN WATER MG/L	07/19/79-04/30/80	0	4	
TUZI0096	No	00940	CHLORIDE, TOTAL IN WATER MG/L	04/26/90-07/24/91	1	6	
TUZI0097	No	00940	CHLORIDE, TOTAL IN WATER MG/L	02/26/75-12/29/76	1	2	
TUZI0098	No	00940	CHLORIDE, TOTAL IN WATER MG/L	03/24/76-07/23/96	20	156	T,A,S
TUZI0100	No	00940	CHLORIDE, TOTAL IN WATER MG/L	08/31/76-09/09/76	0	3	
TUZI0101	No	00940	CHLORIDE, TOTAL IN WATER MG/L	07/02/91-07/02/91	0	1	
TUZI0102	No	00940	CHLORIDE, TOTAL IN WATER MG/L	01/26/73-09/09/76	3	8	
TUZI0103	No	00940	CHLORIDE, TOTAL IN WATER MG/L	04/26/77-04/26/77	0	1	
TUZI0104	No	00940	CHLORIDE, TOTAL IN WATER MG/L	07/02/91-07/02/91	0	1	
TUZI0106	No	00940	CHLORIDE, TOTAL IN WATER MG/L	01/26/73-09/09/76	3	9	
TUZI0108	No	00940	CHLORIDE, TOTAL IN WATER MG/L	07/04/91-07/04/91	0	1	
TUZI0109	No	00940	CHLORIDE, TOTAL IN WATER MG/L	10/10/51-12/13/52	1	3	
TUZI0111	No	00940	CHLORIDE, TOTAL IN WATER MG/L	10/10/51-12/13/52	1	3	
TUZI0112	No	00940	CHLORIDE, TOTAL IN WATER MG/L	10/10/51-12/13/52	1	3	
TUZI0114	No	00940	CHLORIDE, TOTAL IN WATER MG/L	10/10/51-10/10/51	0	1	
TUZI0115	No	00940	CHLORIDE, TOTAL IN WATER MG/L	06/08/77-06/08/77	0	1	
TUZI0002	No	00945	SULFATE, TOTAL (MG/L AS SO4)	04/04/78-07/21/93	15	2	
TUZI0004	No	00945	SULFATE, TOTAL (MG/L AS SO4)	12/20/77-12/20/77	0	1	
TUZI0005	No	00945	SULFATE, TOTAL (MG/L AS SO4)	10/24/58-07/26/74	15	3	
TUZI0006	No	00945	SULFATE, TOTAL (MG/L AS SO4)	07/08/77-07/20/93	16	2	
TUZI0008	No	00945	SULFATE, TOTAL (MG/L AS SO4)	02/13/73-02/13/73	0	1	
TUZI0010	No	00945	SULFATE, TOTAL (MG/L AS SO4)	04/15/80-12/10/80	0	10	
TUZI0011	No	00945	SULFATE, TOTAL (MG/L AS SO4)	02/12/80-12/10/80	0	12	
TUZI0012	No	00945	SULFATE, TOTAL (MG/L AS SO4)	02/12/80-12/10/80	0	12	
TUZI0014	No	00945	SULFATE, TOTAL (MG/L AS SO4)	10/09/58-07/26/93	34	5	
TUZI0015	No	00945	SULFATE, TOTAL (MG/L AS SO4)	02/08/73-02/08/73	0	1	
TUZI0016	No	00945	SULFATE, TOTAL (MG/L AS SO4)	10/15/58-10/15/58	0	1	
TUZI0018	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/09/73-08/22/73	0	3	
TUZI0021	No	00945	SULFATE, TOTAL (MG/L AS SO4)	05/04/78-05/04/78	0	1	
TUZI0023	No	00945	SULFATE, TOTAL (MG/L AS SO4)	12/06/88-12/06/88	0	1	
TUZI0026	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	12/06/88-12/06/88	0	1	
TUZI0027	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	12/06/88-12/06/88	0	1	
TUZI0029	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	12/06/88-12/06/88	0	1	
TUZI0031	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	06/12/79-06/12/79	0	1	
TUZI0032	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	06/21/77-06/21/77	0	1	
TUZI0033	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	12/06/88-12/06/88	0	1	
TUZI0036	No	00945	SULFATE, TOTAL (MG/L AS SO4)	09/01/76-12/09/80	4	15	
TUZI0040	No	00945	SULFATE, TOTAL (MG/L AS SO4)	10/29/58-10/29/58	0	1	
TUZI0042	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	08/18/59-08/11/75	15	6	
TUZI0043	No	00945	SULFATE, TOTAL (MG/L AS SO4)	01/30/73-08/22/73	0	5	
TUZI0044	No	00945	SULFATE, TOTAL (MG/L AS SO4)	02/08/73-02/08/73	0	1	
TUZI0045	No	00945	SULFATE, TOTAL (MG/L AS SO4)	02/08/73-02/08/73	0	1	
TUZI0046	No	00945	SULFATE, TOTAL (MG/L AS SO4)	01/26/73-12/09/80	7	17	
TUZI0047	No	00945	SULFATE, TOTAL (MG/L AS SO4)	06/12/79-06/12/79	0	1	
TUZI0051	No	00945	SULFATE, TOTAL (MG/L AS SO4)	11/15/88-01/07/93	4	28	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

**Station/Parameter Period of Record Tabulation
From 10/10/51 To 07/23/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
TUZI0065	No	00945	SULFATE, TOTAL (MG/L AS SO4)	01/30/73-06/13/79	6	3	
TUZI0066	No	00945	SULFATE, TOTAL (MG/L AS SO4)	02/12/80-04/29/83	3	14	
TUZI0068	No	00945	SULFATE, TOTAL (MG/L AS SO4)	02/12/80-12/09/80	0	11	
TUZI0069	No	00945	SULFATE, TOTAL (MG/L AS SO4)	02/25/88-10/25/88	0	4	
TUZI0070	No	00945	SULFATE, TOTAL (MG/L AS SO4)	02/12/80-12/09/80	0	12	
TUZI0071	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/09/73-12/09/80	7	17	
TUZI0081	No	00945	SULFATE, TOTAL (MG/L AS SO4)	02/08/78-02/08/78	0	1	
TUZI0083	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/31/79-10/31/79	0	1	
TUZI0085	No	00945	SULFATE, TOTAL (MG/L AS SO4)	02/07/73-02/07/73	0	1	
TUZI0088	No	00945	SULFATE, TOTAL (MG/L AS SO4)	07/19/79-04/30/80	0	4	
TUZI0096	No	00945	SULFATE, TOTAL (MG/L AS SO4)	04/26/90-07/24/91	1	6	
TUZI0097	No	00945	SULFATE, TOTAL (MG/L AS SO4)	02/26/75-12/29/76	1	2	
TUZI0098	No	00945	SULFATE, TOTAL (MG/L AS SO4)	03/24/76-07/23/96	20	175	T,A,S
TUZI0100	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/31/76-09/09/76	0	3	
TUZI0101	No	00945	SULFATE, TOTAL (MG/L AS SO4)	07/02/91-07/02/91	0	1	
TUZI0102	No	00945	SULFATE, TOTAL (MG/L AS SO4)	01/26/73-09/09/76	3	8	
TUZI0103	No	00945	SULFATE, TOTAL (MG/L AS SO4)	04/26/77-04/26/77	0	1	
TUZI0104	No	00945	SULFATE, TOTAL (MG/L AS SO4)	07/02/91-07/02/91	0	1	
TUZI0106	No	00945	SULFATE, TOTAL (MG/L AS SO4)	01/26/73-09/09/76	3	9	
TUZI0108	No	00945	SULFATE, TOTAL (MG/L AS SO4)	07/04/91-07/04/91	0	1	
TUZI0109	No	00945	SULFATE, TOTAL (MG/L AS SO4)	10/10/51-10/10/51	0	1	
TUZI0111	No	00945	SULFATE, TOTAL (MG/L AS SO4)	10/10/51-10/10/51	0	1	
TUZI0112	No	00945	SULFATE, TOTAL (MG/L AS SO4)	10/10/51-10/10/51	0	1	
TUZI0114	No	00945	SULFATE, TOTAL (MG/L AS SO4)	10/10/51-10/10/51	0	1	
TUZI0115	No	00945	SULFATE, TOTAL (MG/L AS SO4)	06/08/77-06/08/77	0	1	
TUZI0001	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	07/07/78-07/07/78	0	1	
TUZI0007	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	07/08/78-07/08/78	0	1	
TUZI0071	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	08/05/80-08/05/80	0	1	
TUZI0075	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	07/08/78-07/08/78	0	1	
TUZI0105	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	03/23/78-03/23/78	0	1	
TUZI0110	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	07/21/78-07/21/78	0	1	
TUZI0002	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	04/04/78-07/21/93	15	2	
TUZI0004	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	12/20/77-12/20/77	0	1	
TUZI0005	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/24/58-07/26/74	15	3	
TUZI0006	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/08/77-07/20/93	16	2	
TUZI0008	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	02/13/73-02/13/73	0	1	
TUZI0014	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/09/58-07/26/93	34	5	
TUZI0016	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/15/58-10/15/58	0	1	
TUZI0021	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/04/78-05/04/78	0	1	
TUZI0031	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/12/79-06/12/79	0	1	
TUZI0032	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/21/77-06/21/77	0	1	
TUZI0040	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/29/58-10/29/58	0	1	
TUZI0042	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/18/59-08/11/75	15	6	
TUZI0043	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	01/30/73-02/06/73	0	2	
TUZI0044	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	02/08/73-02/08/73	0	1	
TUZI0045	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	02/08/73-02/08/73	0	1	
TUZI0046	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	01/30/73-02/06/73	0	2	
TUZI0047	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/12/79-06/12/79	0	1	
TUZI0065	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	01/30/73-02/06/73	0	2	
TUZI0081	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	02/08/78-02/08/78	0	1	
TUZI0085	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	02/07/73-02/07/73	0	1	
TUZI0097	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	02/26/75-02/26/75	0	1	
TUZI0098	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/24/76-07/23/96	20	152	T,A,S
TUZI0101	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/02/91-07/02/91	0	1	
TUZI0102	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	01/26/73-01/30/73	0	2	
TUZI0103	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	04/26/77-04/26/77	0	1	
TUZI0104	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/02/91-07/02/91	0	1	
TUZI0106	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	01/26/73-02/07/73	0	3	
TUZI0108	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/04/91-07/04/91	0	1	
TUZI0109	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/10/51-10/10/51	0	1	
TUZI0111	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/10/51-10/10/51	0	1	
TUZI0112	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/10/51-10/10/51	0	1	
TUZI0114	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/10/51-10/10/51	0	1	
TUZI0115	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/08/77-06/08/77	0	1	
TUZI0010	No	00951	FLUORIDE, TOTAL (MG/L AS F)	04/15/80-04/15/80	0	1	
TUZI0011	No	00951	FLUORIDE, TOTAL (MG/L AS F)	03/18/80-03/18/80	0	1	
TUZI0012	No	00951	FLUORIDE, TOTAL (MG/L AS F)	02/12/80-03/18/80	0	2	
TUZI0023	No	00951	FLUORIDE, TOTAL (MG/L AS F)	12/06/88-12/06/88	0	1	
TUZI0026	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	12/06/88-12/06/88	0	1	
TUZI0027	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	12/06/88-12/06/88	0	1	
TUZI0029	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	12/06/88-12/06/88	0	1	
TUZI0033	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	12/06/88-12/06/88	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

**Station/Parameter Period of Record Tabulation
From 10/10/51 To 07/23/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
TUZI0036	No	00951	FLUORIDE, TOTAL (MG/L AS F)	09/01/76-03/18/80	3	4	
TUZI0046	No	00951	FLUORIDE, TOTAL (MG/L AS F)	02/12/80-04/16/80	0	3	
TUZI0051	No	00951	FLUORIDE, TOTAL (MG/L AS F)	11/15/88-01/07/93	4	30	
TUZI0065	No	00951	FLUORIDE, TOTAL (MG/L AS F)	06/13/79-06/13/79	0	1	
TUZI0066	No	00951	FLUORIDE, TOTAL (MG/L AS F)	02/12/80-04/29/83	3	4	
TUZI0068	No	00951	FLUORIDE, TOTAL (MG/L AS F)	02/12/80-04/15/80	0	3	
TUZI0069	No	00951	FLUORIDE, TOTAL (MG/L AS F)	02/25/88-10/25/88	0	4	
TUZI0070	No	00951	FLUORIDE, TOTAL (MG/L AS F)	03/18/80-04/15/80	0	2	
TUZI0071	No	00951	FLUORIDE, TOTAL (MG/L AS F)	03/18/80-04/15/80	0	3	
TUZI0096	No	00951	FLUORIDE, TOTAL (MG/L AS F)	04/26/90-07/24/91	1	6	
TUZI0097	No	00951	FLUORIDE, TOTAL (MG/L AS F)	12/29/76-12/29/76	0	1	
TUZI0100	No	00951	FLUORIDE, TOTAL (MG/L AS F)	08/31/76-09/09/76	0	3	
TUZI0102	No	00951	FLUORIDE, TOTAL (MG/L AS F)	08/31/76-09/09/76	0	3	
TUZI0106	No	00951	FLUORIDE, TOTAL (MG/L AS F)	08/31/76-09/09/76	0	3	
TUZI0002	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	04/04/78-07/21/93	15	2	
TUZI0004	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	12/20/77-12/20/77	0	1	
TUZI0005	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/24/58-10/24/58	0	1	
TUZI0006	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	07/20/93-07/20/93	0	1	
TUZI0014	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/09/58-07/26/93	34	3	
TUZI0016	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/15/58-10/15/58	0	1	
TUZI0021	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/04/78-05/04/78	0	1	
TUZI0031	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	06/12/79-06/12/79	0	1	
TUZI0032	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	06/21/77-06/21/77	0	1	
TUZI0040	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/29/58-10/29/58	0	1	
TUZI0042	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/18/59-04/06/66	6	5	
TUZI0047	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	06/12/79-06/12/79	0	1	
TUZI0061	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	02/25/81-02/25/81	0	1	
TUZI0081	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	02/08/78-02/08/78	0	1	
TUZI0090	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	02/25/81-02/25/81	0	1	
TUZI0098	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/24/76-07/03/91	15	53	
TUZI0101	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	07/02/91-07/02/91	0	1	
TUZI0103	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	04/26/77-04/26/77	0	1	
TUZI0104	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	07/02/91-07/02/91	0	1	
TUZI0108	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	07/04/91-07/04/91	0	1	
TUZI0109	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/10/51-10/10/51	0	1	
TUZI0111	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/10/51-10/10/51	0	1	
TUZI0112	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/10/51-10/10/51	0	1	
TUZI0114	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/10/51-10/10/51	0	1	
TUZI0115	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	06/08/77-06/08/77	0	1	
TUZI0010	No	00956	SILICA, TOTAL (MG/L AS SI02)	05/21/80-05/21/80	0	1	
TUZI0011	No	00956	SILICA, TOTAL (MG/L AS SI02)	05/21/80-05/21/80	0	1	
TUZI0012	No	00956	SILICA, TOTAL (MG/L AS SI02)	05/21/80-05/21/80	0	1	
TUZI0066	No	00956	SILICA, TOTAL (MG/L AS SI02)	05/20/80-05/20/80	0	1	
TUZI0068	No	00956	SILICA, TOTAL (MG/L AS SI02)	05/20/80-05/20/80	0	1	
TUZI0070	No	00956	SILICA, TOTAL (MG/L AS SI02)	05/20/80-05/20/80	0	1	
TUZI0071	No	00956	SILICA, TOTAL (MG/L AS SI02)	05/20/80-05/20/80	0	1	
TUZI0071	No	00966	MICA IN DRILLING FLUIDS LB/BARREL	08/05/80-08/05/80	0	1	
TUZI0015	No	00997	ARSENIC, INORGANIC TOT (UG/L AS AS)	02/08/73-02/08/73	0	1	
TUZI0018	No	00997	ARSENIC, INORGANIC TOT (UG/L AS AS)	08/22/73-08/22/73	0	1	
TUZI0043	No	00997	ARSENIC, INORGANIC TOT (UG/L AS AS)	01/30/73-01/30/73	0	1	
TUZI0044	No	00997	ARSENIC, INORGANIC TOT (UG/L AS AS)	02/08/73-02/08/73	0	1	
TUZI0045	No	00997	ARSENIC, INORGANIC TOT (UG/L AS AS)	02/08/73-02/08/73	0	1	
TUZI0046	No	00997	ARSENIC, INORGANIC TOT (UG/L AS AS)	01/30/73-08/22/73	0	3	
TUZI0065	No	00997	ARSENIC, INORGANIC TOT (UG/L AS AS)	01/30/73-01/30/73	0	1	
TUZI0071	No	00997	ARSENIC, INORGANIC TOT (UG/L AS AS)	08/22/73-08/22/73	0	1	
TUZI0097	No	00997	ARSENIC, INORGANIC TOT (UG/L AS AS)	11/12/74-03/25/75	0	5	
TUZI0102	No	00997	ARSENIC, INORGANIC TOT (UG/L AS AS)	01/30/73-08/23/73	0	2	
TUZI0106	No	00997	ARSENIC, INORGANIC TOT (UG/L AS AS)	01/30/73-08/23/73	0	3	
TUZI0001	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	07/07/78-07/07/78	0	1	
TUZI0002	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	02/24/78-07/21/93	15	3	
TUZI0003	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	02/24/78-02/24/78	0	1	
TUZI0004	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	12/20/77-12/20/77	0	1	
TUZI0006	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	07/20/93-07/20/93	0	1	
TUZI0007	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	07/08/78-07/08/78	0	1	
TUZI0010	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	04/15/80-04/15/80	0	1	
TUZI0011	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	04/15/80-04/15/80	0	1	
TUZI0012	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	04/15/80-04/15/80	0	1	
TUZI0014	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	02/09/78-07/26/93	15	2	
TUZI0036	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	04/16/80-04/16/80	0	1	
TUZI0046	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	04/16/80-04/16/80	0	1	
TUZI0051	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	11/15/88-01/07/93	4	12	
TUZI0061	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	02/25/81-02/25/81	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

**Station/Parameter Period of Record Tabulation
From 10/10/51 To 07/23/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
TUZI0066	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	04/15/80-12/09/80	0	10	
TUZI0068	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	04/15/80-12/09/80	0	10	
TUZI0070	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	04/15/80-12/09/80	0	10	
TUZI0071	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	04/15/80-12/09/80	0	11	
TUZI0075	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	07/08/78-07/08/78	0	1	
TUZI0081	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	02/08/78-02/08/78	0	1	
TUZI0090	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	02/25/81-02/25/81	0	1	
TUZI0098	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/22/86-07/23/96	9	95	
TUZI0105	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/23/78-03/23/78	0	1	
TUZI0110	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	07/21/78-07/21/78	0	1	
TUZI0005	No	01002	ARSENIC, TOTAL (UG/L AS AS)	03/19/73-07/26/74	1	2	
TUZI0006	No	01002	ARSENIC, TOTAL (UG/L AS AS)	07/08/77-07/08/77	0	1	
TUZI0008	No	01002	ARSENIC, TOTAL (UG/L AS AS)	02/13/73-02/13/73	0	1	
TUZI0010	No	01002	ARSENIC, TOTAL (UG/L AS AS)	04/15/80-05/21/80	0	2	
TUZI0011	No	01002	ARSENIC, TOTAL (UG/L AS AS)	02/12/80-05/21/80	0	4	
TUZI0012	No	01002	ARSENIC, TOTAL (UG/L AS AS)	02/12/80-05/21/80	0	4	
TUZI0013	No	01002	ARSENIC, TOTAL (UG/L AS AS)	07/28/87-07/28/87	0	1	
TUZI0014	No	01002	ARSENIC, TOTAL (UG/L AS AS)	07/30/73-11/30/76	3	2	
TUZI0023	No	01002	ARSENIC, TOTAL (UG/L AS AS)	12/06/88-12/06/88	0	1	
TUZI0026	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	12/06/88-12/06/88	0	1	
TUZI0027	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	12/06/88-12/06/88	0	1	
TUZI0029	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	12/06/88-12/06/88	0	1	
TUZI0032	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	06/21/77-06/21/77	0	1	
TUZI0033	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	12/06/88-12/06/88	0	1	
TUZI0034	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	08/04/93-08/04/93	0	1	
TUZI0036	No	01002	ARSENIC, TOTAL (UG/L AS AS)	09/01/76-05/20/80	3	7	
TUZI0042	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	08/11/75-08/11/75	0	1	
TUZI0046	No	01002	ARSENIC, TOTAL (UG/L AS AS)	02/12/80-04/16/80	0	3	
TUZI0049	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	08/04/93-08/04/93	0	1	
TUZI0051	No	01002	ARSENIC, TOTAL (UG/L AS AS)	11/15/88-01/07/93	4	31	
TUZI0059	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	08/04/93-08/04/93	0	1	
TUZI0065	No	01002	ARSENIC, TOTAL (UG/L AS AS)	06/13/79-06/13/79	0	1	
TUZI0066	No	01002	ARSENIC, TOTAL (UG/L AS AS)	02/12/80-04/29/83	3	7	
TUZI0067	No	01002	ARSENIC, TOTAL (UG/L AS AS)	08/04/93-08/04/93	0	2	
TUZI0068	No	01002	ARSENIC, TOTAL (UG/L AS AS)	02/12/80-06/18/80	0	5	
TUZI0069	No	01002	ARSENIC, TOTAL (UG/L AS AS)	02/25/88-10/25/88	0	4	
TUZI0070	No	01002	ARSENIC, TOTAL (UG/L AS AS)	02/12/80-06/17/80	0	5	
TUZI0071	No	01002	ARSENIC, TOTAL (UG/L AS AS)	02/12/80-12/09/80	0	8	
TUZI0074	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	08/04/93-08/04/93	0	2	
TUZI0076	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	08/04/93-08/04/93	0	1	
TUZI0077	No	01002	ARSENIC, TOTAL (UG/L AS AS)	08/03/93-08/03/93	0	1	
TUZI0079	No	01002	ARSENIC, TOTAL (UG/L AS AS)	08/04/93-08/04/93	0	2	
TUZI0082	No	01002	ARSENIC, TOTAL (UG/L AS AS)	08/03/93-08/03/93	0	1	
TUZI0084	No	01002	ARSENIC, TOTAL (UG/L AS AS)	08/03/93-08/03/93	0	1	
TUZI0087	No	01002	ARSENIC, TOTAL (UG/L AS AS)	08/03/93-08/03/93	0	1	
TUZI0089	No	01002	ARSENIC, TOTAL (UG/L AS AS)	08/03/93-08/03/93	0	1	
TUZI0096	No	01002	ARSENIC, TOTAL (UG/L AS AS)	04/26/90-07/24/91	1	6	
TUZI0097	No	01002	ARSENIC, TOTAL (UG/L AS AS)	12/29/76-12/29/76	0	1	
TUZI0098	No	01002	ARSENIC, TOTAL (UG/L AS AS)	03/24/76-07/23/96	20	141	T,A,S
TUZI0100	No	01002	ARSENIC, TOTAL (UG/L AS AS)	10/10/74-09/09/76	1	4	
TUZI0102	No	01002	ARSENIC, TOTAL (UG/L AS AS)	08/31/76-09/09/76	0	3	
TUZI0106	No	01002	ARSENIC, TOTAL (UG/L AS AS)	08/31/76-09/09/76	0	3	
TUZI0013	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	07/27/87-07/27/87	0	1	
TUZI0017	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0019	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0020	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0022	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0024	Yes	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0025	Yes	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0028	Yes	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0030	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0034	Yes	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0035	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0037	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0038	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0039	Yes	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0041	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0048	Yes	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0049	Yes	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0050	Yes	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0052	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0053	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	07/01/92-07/01/92	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

**Station/Parameter Period of Record Tabulation
From 10/10/51 To 07/23/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
TUZI0054	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0055	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0056	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0057	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0058	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0059	Yes	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0060	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0063	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0064	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0066	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/26/80-08/26/80	0	1	
TUZI0067	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0068	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/26/80-08/26/80	0	1	
TUZI0070	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/26/80-08/26/80	0	1	
TUZI0072	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0073	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0074	Yes	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0076	Yes	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0077	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0078	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0079	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0080	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0082	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0084	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0086	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0087	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0089	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0092	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0093	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0095	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0002	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	07/21/93-07/21/93	0	1	
TUZI0006	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	07/20/93-07/20/93	0	1	
TUZI0014	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	07/26/93-07/26/93	0	1	
TUZI0051	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	11/15/88-01/07/93	4	12	
TUZI0061	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	02/25/81-02/25/81	0	1	
TUZI0090	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	02/25/81-02/25/81	0	1	
TUZI0098	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	10/22/86-07/23/96	9	96	
TUZI0101	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	07/02/91-07/02/91	0	1	
TUZI0104	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	07/02/91-07/02/91	0	1	
TUZI0108	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	07/04/91-07/04/91	0	1	
TUZI0023	No	01007	BARIUM, TOTAL (UG/L AS BA)	12/06/88-12/06/88	0	1	
TUZI0026	Yes	01007	BARIUM, TOTAL (UG/L AS BA)	12/06/88-12/06/88	0	1	
TUZI0027	Yes	01007	BARIUM, TOTAL (UG/L AS BA)	12/06/88-12/06/88	0	1	
TUZI0029	Yes	01007	BARIUM, TOTAL (UG/L AS BA)	12/06/88-12/06/88	0	1	
TUZI0032	Yes	01007	BARIUM, TOTAL (UG/L AS BA)	06/21/77-06/21/77	0	1	
TUZI0033	Yes	01007	BARIUM, TOTAL (UG/L AS BA)	12/06/88-12/06/88	0	1	
TUZI0034	Yes	01007	BARIUM, TOTAL (UG/L AS BA)	08/04/93-08/04/93	0	1	
TUZI0049	Yes	01007	BARIUM, TOTAL (UG/L AS BA)	08/04/93-08/04/93	0	1	
TUZI0051	No	01007	BARIUM, TOTAL (UG/L AS BA)	11/15/88-01/07/93	4	31	
TUZI0059	Yes	01007	BARIUM, TOTAL (UG/L AS BA)	08/04/93-08/04/93	0	1	
TUZI0067	No	01007	BARIUM, TOTAL (UG/L AS BA)	08/04/93-08/04/93	0	2	
TUZI0069	No	01007	BARIUM, TOTAL (UG/L AS BA)	02/25/88-10/25/88	0	4	
TUZI0074	Yes	01007	BARIUM, TOTAL (UG/L AS BA)	08/04/93-08/04/93	0	2	
TUZI0076	Yes	01007	BARIUM, TOTAL (UG/L AS BA)	08/04/93-08/04/93	0	1	
TUZI0077	No	01007	BARIUM, TOTAL (UG/L AS BA)	08/03/93-08/03/93	0	1	
TUZI0079	No	01007	BARIUM, TOTAL (UG/L AS BA)	08/04/93-08/04/93	0	2	
TUZI0082	No	01007	BARIUM, TOTAL (UG/L AS BA)	08/03/93-08/03/93	0	1	
TUZI0084	No	01007	BARIUM, TOTAL (UG/L AS BA)	08/03/93-08/03/93	0	1	
TUZI0087	No	01007	BARIUM, TOTAL (UG/L AS BA)	08/03/93-08/03/93	0	1	
TUZI0089	No	01007	BARIUM, TOTAL (UG/L AS BA)	08/03/93-08/03/93	0	1	
TUZI0096	No	01007	BARIUM, TOTAL (UG/L AS BA)	04/26/90-07/24/91	1	6	
TUZI0098	No	01007	BARIUM, TOTAL (UG/L AS BA)	03/24/76-10/24/79	3	41	
TUZI0017	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0019	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0020	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0022	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0024	Yes	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0025	Yes	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0028	Yes	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0030	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0034	Yes	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0035	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0037	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	07/01/92-07/01/92	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

**Station/Parameter Period of Record Tabulation
From 10/10/51 To 07/23/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
TUZI0038	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0039	Yes	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0041	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0048	Yes	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0049	Yes	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0050	Yes	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0052	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0053	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0054	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0055	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0056	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0057	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0058	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0059	Yes	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0060	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0063	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0064	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0067	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0072	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0073	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0074	Yes	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0076	Yes	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0077	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0078	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0079	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0080	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0082	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0084	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0086	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0087	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0089	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0092	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0093	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0095	No	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0051	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	11/15/88-01/07/93	4	12	
TUZI0061	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	02/25/81-02/25/81	0	1	
TUZI0090	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	02/25/81-02/25/81	0	1	
TUZI0098	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	08/23/95-07/23/96	0	5	
TUZI0013	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	07/28/87-07/28/87	0	1	
TUZI0023	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	12/06/88-12/06/88	0	1	
TUZI0026	Yes	01012	BERYLLIUM, TOTAL (UG/L AS BE)	12/06/88-12/06/88	0	1	
TUZI0027	Yes	01012	BERYLLIUM, TOTAL (UG/L AS BE)	12/06/88-12/06/88	0	1	
TUZI0029	Yes	01012	BERYLLIUM, TOTAL (UG/L AS BE)	12/06/88-12/06/88	0	1	
TUZI0033	Yes	01012	BERYLLIUM, TOTAL (UG/L AS BE)	12/06/88-12/06/88	0	1	
TUZI0034	Yes	01012	BERYLLIUM, TOTAL (UG/L AS BE)	08/04/93-08/04/93	0	1	
TUZI0049	Yes	01012	BERYLLIUM, TOTAL (UG/L AS BE)	08/04/93-08/04/93	0	1	
TUZI0051	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	11/15/88-01/07/93	4	31	
TUZI0059	Yes	01012	BERYLLIUM, TOTAL (UG/L AS BE)	08/04/93-08/04/93	0	1	
TUZI0067	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	08/04/93-08/04/93	0	2	
TUZI0069	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	05/26/88-10/25/88	0	3	
TUZI0074	Yes	01012	BERYLLIUM, TOTAL (UG/L AS BE)	08/04/93-08/04/93	0	2	
TUZI0076	Yes	01012	BERYLLIUM, TOTAL (UG/L AS BE)	08/04/93-08/04/93	0	1	
TUZI0077	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	08/03/93-08/03/93	0	1	
TUZI0079	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	08/04/93-08/04/93	0	2	
TUZI0082	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	08/03/93-08/03/93	0	1	
TUZI0084	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	08/03/93-08/03/93	0	1	
TUZI0087	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	08/03/93-08/03/93	0	1	
TUZI0089	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	08/03/93-08/03/93	0	1	
TUZI0096	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	04/26/90-07/24/91	1	5	
TUZI0098	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	10/19/88-07/23/96	7	32	
TUZI0013	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	07/27/87-07/27/87	0	1	
TUZI0017	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0019	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0020	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0022	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0024	Yes	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0025	Yes	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0028	Yes	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0030	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0035	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0037	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0038	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/30/92-06/30/92	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation **From 10/10/51 To 07/23/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
TUZI0039	Yes	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0041	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0048	Yes	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0050	Yes	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0052	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0053	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0054	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0055	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0056	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0057	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0058	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0059	Yes	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0060	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0063	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0064	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0067	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0072	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0073	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0074	Yes	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0076	Yes	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0077	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0078	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0079	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0080	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0084	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0086	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0087	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0089	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0092	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0093	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0095	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0002	No	01020	BORON, DISSOLVED (UG/L AS B)	04/04/78-07/21/93	15	2	
TUZI0004	No	01020	BORON, DISSOLVED (UG/L AS B)	12/20/77-12/20/77	0	1	
TUZI0006	No	01020	BORON, DISSOLVED (UG/L AS B)	07/20/93-07/20/93	0	1	
TUZI0014	No	01020	BORON, DISSOLVED (UG/L AS B)	02/09/78-07/26/93	15	2	
TUZI0021	No	01020	BORON, DISSOLVED (UG/L AS B)	05/04/78-05/04/78	0	1	
TUZI0031	Yes	01020	BORON, DISSOLVED (UG/L AS B)	06/12/79-06/12/79	0	1	
TUZI0032	Yes	01020	BORON, DISSOLVED (UG/L AS B)	06/21/77-06/21/77	0	1	
TUZI0042	Yes	01020	BORON, DISSOLVED (UG/L AS B)	03/04/63-04/06/66	3	4	
TUZI0047	No	01020	BORON, DISSOLVED (UG/L AS B)	06/12/79-06/12/79	0	1	
TUZI0051	No	01020	BORON, DISSOLVED (UG/L AS B)	11/15/88-01/07/93	4	12	
TUZI0081	No	01020	BORON, DISSOLVED (UG/L AS B)	02/08/78-02/08/78	0	1	
TUZI0098	No	01020	BORON, DISSOLVED (UG/L AS B)	03/24/76-08/30/94	18	140	T,A,S
TUZI0103	No	01020	BORON, DISSOLVED (UG/L AS B)	04/26/77-04/26/77	0	1	
TUZI0112	No	01020	BORON, DISSOLVED (UG/L AS B)	02/16/52-02/16/52	0	1	
TUZI0115	No	01020	BORON, DISSOLVED (UG/L AS B)	06/08/77-06/08/77	0	1	
TUZI0098	No	01021	BORON, SUSPENDED (UG/L AS B)	04/18/79-10/24/79	0	7	
TUZI0023	No	01022	BORON, TOTAL (UG/L AS B)	12/06/88-12/06/88	0	1	
TUZI0026	Yes	01022	BORON, TOTAL (UG/L AS B)	12/06/88-12/06/88	0	1	
TUZI0027	Yes	01022	BORON, TOTAL (UG/L AS B)	12/06/88-12/06/88	0	1	
TUZI0029	Yes	01022	BORON, TOTAL (UG/L AS B)	12/06/88-12/06/88	0	1	
TUZI0032	Yes	01022	BORON, TOTAL (UG/L AS B)	06/21/77-06/21/77	0	1	
TUZI0033	Yes	01022	BORON, TOTAL (UG/L AS B)	12/06/88-12/06/88	0	1	
TUZI0051	No	01022	BORON, TOTAL (UG/L AS B)	11/15/88-01/07/93	4	31	
TUZI0069	No	01022	BORON, TOTAL (UG/L AS B)	02/25/88-10/25/88	0	4	
TUZI0096	No	01022	BORON, TOTAL (UG/L AS B)	04/26/90-07/24/91	1	6	
TUZI0098	No	01022	BORON, TOTAL (UG/L AS B)	03/24/76-07/23/96	20	61	S
TUZI0001	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	07/07/78-07/07/78	0	1	
TUZI0007	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	07/08/78-07/08/78	0	1	
TUZI0011	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	04/15/80-04/15/80	0	1	
TUZI0012	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	04/15/80-04/15/80	0	1	
TUZI0036	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	04/16/80-04/16/80	0	1	
TUZI0046	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	04/16/80-04/16/80	0	1	
TUZI0047	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	06/12/79-06/12/79	0	1	
TUZI0051	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	11/15/88-01/07/93	4	12	
TUZI0061	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	02/25/81-02/25/81	0	1	
TUZI0066	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/20/80-12/09/80	0	9	
TUZI0068	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	04/15/80-12/09/80	0	10	
TUZI0070	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	04/15/80-12/09/80	0	10	
TUZI0071	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	04/15/80-12/09/80	0	11	
TUZI0075	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	07/08/78-07/08/78	0	1	
TUZI0090	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	02/25/81-02/25/81	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

**Station/Parameter Period of Record Tabulation
From 10/10/51 To 07/23/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
TUZI0098	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/24/76-07/23/96	20	98	S
TUZI0105	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/23/78-03/23/78	0	1	
TUZI0110	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	07/21/78-07/21/78	0	1	
TUZI0013	No	01026	CADMIUM, SUSPENDED (UG/L AS CD)	07/27/87-07/27/87	0	1	
TUZI0047	No	01026	CADMIUM, SUSPENDED (UG/L AS CD)	06/12/79-06/12/79	0	1	
TUZI0098	No	01026	CADMIUM, SUSPENDED (UG/L AS CD)	03/24/76-04/20/76	0	2	
TUZI0005	No	01027	CADMIUM, TOTAL (UG/L AS CD)	03/19/73-07/26/74	1	2	
TUZI0008	No	01027	CADMIUM, TOTAL (UG/L AS CD)	02/13/73-02/13/73	0	1	
TUZI0010	No	01027	CADMIUM, TOTAL (UG/L AS CD)	04/15/80-05/21/80	0	2	
TUZI0011	No	01027	CADMIUM, TOTAL (UG/L AS CD)	02/12/80-05/21/80	0	4	
TUZI0012	No	01027	CADMIUM, TOTAL (UG/L AS CD)	02/12/80-05/21/80	0	4	
TUZI0013	No	01027	CADMIUM, TOTAL (UG/L AS CD)	07/28/87-07/28/87	0	1	
TUZI0015	No	01027	CADMIUM, TOTAL (UG/L AS CD)	02/08/73-02/08/73	0	1	
TUZI0018	No	01027	CADMIUM, TOTAL (UG/L AS CD)	08/22/73-08/22/73	0	1	
TUZI0023	No	01027	CADMIUM, TOTAL (UG/L AS CD)	12/06/88-12/06/88	0	1	
TUZI0026	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	12/06/88-12/06/88	0	1	
TUZI0027	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	12/06/88-12/06/88	0	1	
TUZI0029	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	12/06/88-12/06/88	0	1	
TUZI0032	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	06/21/77-06/21/77	0	1	
TUZI0033	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	12/06/88-12/06/88	0	1	
TUZI0034	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	08/04/93-08/04/93	0	1	
TUZI0036	No	01027	CADMIUM, TOTAL (UG/L AS CD)	09/01/76-08/26/80	3	8	
TUZI0043	No	01027	CADMIUM, TOTAL (UG/L AS CD)	01/30/73-01/30/73	0	1	
TUZI0044	No	01027	CADMIUM, TOTAL (UG/L AS CD)	02/08/73-02/08/73	0	1	
TUZI0045	No	01027	CADMIUM, TOTAL (UG/L AS CD)	02/08/73-02/08/73	0	1	
TUZI0046	No	01027	CADMIUM, TOTAL (UG/L AS CD)	01/30/73-08/26/80	7	8	
TUZI0047	No	01027	CADMIUM, TOTAL (UG/L AS CD)	06/12/79-06/12/79	0	1	
TUZI0049	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	08/04/93-08/04/93	0	1	
TUZI0051	No	01027	CADMIUM, TOTAL (UG/L AS CD)	11/15/88-01/07/93	4	31	
TUZI0059	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	08/04/93-08/04/93	0	1	
TUZI0065	No	01027	CADMIUM, TOTAL (UG/L AS CD)	01/30/73-06/13/79	6	2	
TUZI0066	No	01027	CADMIUM, TOTAL (UG/L AS CD)	02/12/80-04/29/83	3	14	
TUZI0067	No	01027	CADMIUM, TOTAL (UG/L AS CD)	08/04/93-08/04/93	0	2	
TUZI0068	No	01027	CADMIUM, TOTAL (UG/L AS CD)	02/12/80-12/09/80	0	12	
TUZI0069	No	01027	CADMIUM, TOTAL (UG/L AS CD)	02/25/88-10/25/88	0	4	
TUZI0070	No	01027	CADMIUM, TOTAL (UG/L AS CD)	02/12/80-12/09/80	0	11	
TUZI0071	No	01027	CADMIUM, TOTAL (UG/L AS CD)	08/22/73-12/09/80	7	15	
TUZI0074	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	08/04/93-08/04/93	0	2	
TUZI0076	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	08/04/93-08/04/93	0	1	
TUZI0077	No	01027	CADMIUM, TOTAL (UG/L AS CD)	08/03/93-08/03/93	0	1	
TUZI0079	No	01027	CADMIUM, TOTAL (UG/L AS CD)	08/04/93-08/04/93	0	2	
TUZI0082	No	01027	CADMIUM, TOTAL (UG/L AS CD)	08/03/93-08/03/93	0	1	
TUZI0084	No	01027	CADMIUM, TOTAL (UG/L AS CD)	08/03/93-08/03/93	0	1	
TUZI0087	No	01027	CADMIUM, TOTAL (UG/L AS CD)	08/03/93-08/03/93	0	1	
TUZI0089	No	01027	CADMIUM, TOTAL (UG/L AS CD)	08/03/93-08/03/93	0	1	
TUZI0096	No	01027	CADMIUM, TOTAL (UG/L AS CD)	04/26/90-07/24/91	1	6	
TUZI0097	No	01027	CADMIUM, TOTAL (UG/L AS CD)	11/12/74-03/25/75	0	5	
TUZI0098	No	01027	CADMIUM, TOTAL (UG/L AS CD)	03/24/76-07/23/96	20	171	T,A,S
TUZI0100	No	01027	CADMIUM, TOTAL (UG/L AS CD)	10/10/74-09/09/76	1	4	
TUZI0102	No	01027	CADMIUM, TOTAL (UG/L AS CD)	01/30/73-09/09/76	3	5	
TUZI0106	No	01027	CADMIUM, TOTAL (UG/L AS CD)	01/30/73-09/09/76	3	6	
TUZI0017	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0019	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0020	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0022	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0024	Yes	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0025	Yes	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0028	Yes	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0030	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0034	Yes	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0035	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0037	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0038	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0039	Yes	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0041	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0048	Yes	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0049	Yes	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0050	Yes	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0052	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0053	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0054	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0055	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/29/92-06/29/92	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 10/10/51 To 07/23/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots
TUZI0056	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0057	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0058	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0059	Yes	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0060	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0063	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0064	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0066	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/17/80-08/26/80	0	2	
TUZI0067	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0068	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/18/80-08/26/80	0	2	
TUZI0070	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/17/80-08/26/80	0	2	
TUZI0071	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/17/80-08/26/80	0	2	
TUZI0073	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0074	Yes	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0076	Yes	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0077	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0078	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0079	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0080	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0082	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0084	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0086	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0087	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0089	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0093	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0095	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0113	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	07/27/87-07/27/87	0	1	
TUZI0117	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0119	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0120	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0122	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0124	Yes	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0125	Yes	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0128	Yes	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0130	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0134	Yes	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0135	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0137	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0138	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0139	Yes	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0141	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0148	Yes	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0149	Yes	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0150	Yes	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0152	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0153	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0154	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0155	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0156	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0157	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0158	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0159	Yes	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0160	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0163	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0164	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0166	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/17/80-08/26/80	0	2	
TUZI0167	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0168	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/18/80-08/26/80	0	2	
TUZI0170	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/17/80-08/26/80	0	2	
TUZI0171	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/17/80-08/26/80	0	2	
TUZI0172	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0173	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0174	Yes	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0176	Yes	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0177	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0178	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0179	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0180	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0182	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0184	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0186	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0187	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/03/93-08/03/93	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

**Station/Parameter Period of Record Tabulation
From 10/10/51 To 07/23/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
TUZI0089	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0092	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0093	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0095	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0051	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	11/15/88-01/07/93	4	12	
TUZI0066	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/20/80-12/09/80	0	9	
TUZI0068	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/20/80-12/09/80	0	9	
TUZI0070	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/20/80-12/09/80	0	9	
TUZI0071	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/20/80-12/09/80	0	10	
TUZI0098	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	01/21/81-07/23/96	15	115	
TUZI0002	No	01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	07/21/93-07/21/93	0	1	
TUZI0006	No	01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	07/20/93-07/20/93	0	1	
TUZI0014	No	01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	07/26/93-07/26/93	0	1	
TUZI0036	No	01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	09/01/76-09/10/76	0	3	
TUZI0061	No	01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	02/25/81-02/25/81	0	1	
TUZI0090	No	01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	02/25/81-02/25/81	0	1	
TUZI0098	No	01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	01/21/81-09/22/82	1	20	
TUZI0100	No	01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	08/31/76-09/09/76	0	3	
TUZI0102	No	01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	08/31/76-09/09/76	0	3	
TUZI0106	No	01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	08/31/76-09/09/76	0	3	
TUZI0005	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	03/19/73-07/26/74	1	2	
TUZI0008	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	02/13/73-02/13/73	0	1	
TUZI0010	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	04/15/80-05/21/80	0	2	
TUZI0011	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	02/12/80-05/21/80	0	4	
TUZI0012	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	02/12/80-05/21/80	0	4	
TUZI0013	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	07/28/87-07/28/87	0	1	
TUZI0015	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	02/08/73-02/08/73	0	1	
TUZI0018	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	08/22/73-08/22/73	0	1	
TUZI0023	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	12/06/88-12/06/88	0	1	
TUZI0026	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	12/06/88-12/06/88	0	1	
TUZI0027	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	12/06/88-12/06/88	0	1	
TUZI0029	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	12/06/88-12/06/88	0	1	
TUZI0032	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	06/21/77-06/21/77	0	1	
TUZI0033	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	12/06/88-12/06/88	0	1	
TUZI0034	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	08/04/93-08/04/93	0	1	
TUZI0036	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	02/12/80-08/26/80	0	5	
TUZI0043	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	01/30/73-01/30/73	0	1	
TUZI0044	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	02/08/73-02/08/73	0	1	
TUZI0045	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	02/08/73-02/08/73	0	1	
TUZI0046	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	01/30/73-08/26/80	7	8	
TUZI0049	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	08/04/93-08/04/93	0	1	
TUZI0051	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	11/15/88-01/07/93	4	31	
TUZI0059	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	08/04/93-08/04/93	0	1	
TUZI0065	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	01/30/73-06/13/79	6	2	
TUZI0066	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	02/12/80-04/29/83	3	14	
TUZI0067	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	08/04/93-08/04/93	0	2	
TUZI0068	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	02/12/80-12/09/80	0	12	
TUZI0069	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	02/25/88-10/25/88	0	4	
TUZI0070	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	02/12/80-12/09/80	0	12	
TUZI0071	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	08/22/73-12/09/80	7	15	
TUZI0074	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	08/04/93-08/04/93	0	2	
TUZI0076	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	08/04/93-08/04/93	0	1	
TUZI0077	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	08/03/93-08/03/93	0	1	
TUZI0079	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	08/04/93-08/04/93	0	2	
TUZI0082	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	08/03/93-08/03/93	0	1	
TUZI0084	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	08/03/93-08/03/93	0	1	
TUZI0087	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	08/03/93-08/03/93	0	1	
TUZI0089	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	08/03/93-08/03/93	0	1	
TUZI0096	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	04/26/90-07/24/91	1	6	
TUZI0097	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	11/12/74-03/25/75	0	5	
TUZI0098	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	03/24/76-07/23/96	20	138	T,A,S
TUZI0100	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	10/10/74-10/10/74	0	1	
TUZI0102	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	01/30/73-08/23/73	0	2	
TUZI0106	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	01/30/73-08/23/73	0	3	
TUZI0061	No	01035	COBALT, DISSOLVED (UG/L AS CO)	02/25/81-02/25/81	0	1	
TUZI0090	No	01035	COBALT, DISSOLVED (UG/L AS CO)	02/25/81-02/25/81	0	1	
TUZI0034	Yes	01037	COBALT, TOTAL (UG/L AS CO)	08/04/93-08/04/93	0	1	
TUZI0049	Yes	01037	COBALT, TOTAL (UG/L AS CO)	08/04/93-08/04/93	0	1	
TUZI0059	Yes	01037	COBALT, TOTAL (UG/L AS CO)	08/04/93-08/04/93	0	1	
TUZI0067	No	01037	COBALT, TOTAL (UG/L AS CO)	08/04/93-08/04/93	0	2	
TUZI0074	Yes	01037	COBALT, TOTAL (UG/L AS CO)	08/04/93-08/04/93	0	2	
TUZI0076	Yes	01037	COBALT, TOTAL (UG/L AS CO)	08/04/93-08/04/93	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

**Station/Parameter Period of Record Tabulation
From 10/10/51 To 07/23/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
TUZI0077	No	01037	COBALT, TOTAL (UG/L AS CO)	08/03/93-08/03/93	0	1	
TUZI0079	No	01037	COBALT, TOTAL (UG/L AS CO)	08/04/93-08/04/93	0	2	
TUZI0082	No	01037	COBALT, TOTAL (UG/L AS CO)	08/03/93-08/03/93	0	1	
TUZI0084	No	01037	COBALT, TOTAL (UG/L AS CO)	08/03/93-08/03/93	0	1	
TUZI0087	No	01037	COBALT, TOTAL (UG/L AS CO)	08/03/93-08/03/93	0	1	
TUZI0089	No	01037	COBALT, TOTAL (UG/L AS CO)	08/03/93-08/03/93	0	1	
TUZI0017	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0019	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0020	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0022	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0024	Yes	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0025	Yes	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0028	Yes	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0030	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0035	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0037	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0038	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0039	Yes	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0041	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0048	Yes	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0050	Yes	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0052	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0053	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0054	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0055	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0056	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0057	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0058	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0059	Yes	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0060	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0063	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0064	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0067	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0072	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0073	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0074	Yes	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0076	Yes	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0077	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0078	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0079	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0080	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0084	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0086	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0087	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0089	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0092	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0093	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0095	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0001	No	01040	COPPER, DISSOLVED (UG/L AS CU)	07/07/78-07/07/78	0	1	
TUZI0002	No	01040	COPPER, DISSOLVED (UG/L AS CU)	07/21/93-07/21/93	0	1	
TUZI0006	No	01040	COPPER, DISSOLVED (UG/L AS CU)	07/20/93-07/20/93	0	1	
TUZI0007	No	01040	COPPER, DISSOLVED (UG/L AS CU)	07/08/78-07/08/78	0	1	
TUZI0010	No	01040	COPPER, DISSOLVED (UG/L AS CU)	04/15/80-04/15/80	0	1	
TUZI0011	No	01040	COPPER, DISSOLVED (UG/L AS CU)	04/15/80-04/15/80	0	1	
TUZI0012	No	01040	COPPER, DISSOLVED (UG/L AS CU)	04/15/80-04/15/80	0	1	
TUZI0014	No	01040	COPPER, DISSOLVED (UG/L AS CU)	07/26/93-07/26/93	0	1	
TUZI0036	No	01040	COPPER, DISSOLVED (UG/L AS CU)	04/16/80-04/16/80	0	1	
TUZI0046	No	01040	COPPER, DISSOLVED (UG/L AS CU)	04/16/80-04/16/80	0	1	
TUZI0051	No	01040	COPPER, DISSOLVED (UG/L AS CU)	11/15/88-01/07/93	4	11	
TUZI0061	No	01040	COPPER, DISSOLVED (UG/L AS CU)	02/25/81-02/25/81	0	1	
TUZI0066	No	01040	COPPER, DISSOLVED (UG/L AS CU)	04/15/80-12/09/80	0	10	
TUZI0068	No	01040	COPPER, DISSOLVED (UG/L AS CU)	04/15/80-12/09/80	0	10	
TUZI0070	No	01040	COPPER, DISSOLVED (UG/L AS CU)	04/15/80-12/09/80	0	10	
TUZI0071	No	01040	COPPER, DISSOLVED (UG/L AS CU)	04/15/80-12/09/80	0	11	
TUZI0075	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	07/08/78-07/08/78	0	1	
TUZI0090	No	01040	COPPER, DISSOLVED (UG/L AS CU)	02/25/81-02/25/81	0	1	
TUZI0098	No	01040	COPPER, DISSOLVED (UG/L AS CU)	10/05/83-07/23/96	12	96	
TUZI0105	No	01040	COPPER, DISSOLVED (UG/L AS CU)	03/23/78-03/23/78	0	1	
TUZI0110	No	01040	COPPER, DISSOLVED (UG/L AS CU)	07/21/78-07/21/78	0	1	
TUZI0005	No	01042	COPPER, TOTAL (UG/L AS CU)	03/19/73-07/26/74	1	2	
TUZI0008	No	01042	COPPER, TOTAL (UG/L AS CU)	02/13/73-02/13/73	0	1	
TUZI0010	No	01042	COPPER, TOTAL (UG/L AS CU)	04/15/80-05/21/80	0	2	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation **From 10/10/51 To 07/23/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
TUZI0011	No	01042	COPPER, TOTAL (UG/L AS CU)	02/12/80-05/21/80	0	4	
TUZI0012	No	01042	COPPER, TOTAL (UG/L AS CU)	02/12/80-05/21/80	0	4	
TUZI0013	No	01042	COPPER, TOTAL (UG/L AS CU)	07/28/87-07/28/87	0	1	
TUZI0015	No	01042	COPPER, TOTAL (UG/L AS CU)	02/08/73-02/08/73	0	1	
TUZI0018	No	01042	COPPER, TOTAL (UG/L AS CU)	08/22/73-08/22/73	0	1	
TUZI0023	No	01042	COPPER, TOTAL (UG/L AS CU)	12/06/88-12/06/88	0	1	
TUZI0026	Yes	01042	COPPER, TOTAL (UG/L AS CU)	12/06/88-12/06/88	0	1	
TUZI0027	Yes	01042	COPPER, TOTAL (UG/L AS CU)	12/06/88-12/06/88	0	1	
TUZI0029	Yes	01042	COPPER, TOTAL (UG/L AS CU)	12/06/88-12/06/88	0	1	
TUZI0032	Yes	01042	COPPER, TOTAL (UG/L AS CU)	06/21/77-06/21/77	0	1	
TUZI0033	Yes	01042	COPPER, TOTAL (UG/L AS CU)	12/06/88-12/06/88	0	1	
TUZI0034	Yes	01042	COPPER, TOTAL (UG/L AS CU)	08/04/93-08/04/93	0	1	
TUZI0036	No	01042	COPPER, TOTAL (UG/L AS CU)	09/01/76-08/26/80	3	8	
TUZI0043	No	01042	COPPER, TOTAL (UG/L AS CU)	01/30/73-08/22/73	0	3	
TUZI0044	No	01042	COPPER, TOTAL (UG/L AS CU)	02/08/73-02/08/73	0	1	
TUZI0045	No	01042	COPPER, TOTAL (UG/L AS CU)	02/08/73-02/08/73	0	1	
TUZI0046	No	01042	COPPER, TOTAL (UG/L AS CU)	01/26/73-08/26/80	7	10	
TUZI0049	Yes	01042	COPPER, TOTAL (UG/L AS CU)	08/04/93-08/04/93	0	1	
TUZI0051	No	01042	COPPER, TOTAL (UG/L AS CU)	11/15/88-01/07/93	4	31	
TUZI0059	Yes	01042	COPPER, TOTAL (UG/L AS CU)	08/04/93-08/04/93	0	1	
TUZI0065	No	01042	COPPER, TOTAL (UG/L AS CU)	01/30/73-06/13/79	6	3	
TUZI0066	No	01042	COPPER, TOTAL (UG/L AS CU)	02/12/80-04/29/83	3	14	
TUZI0067	No	01042	COPPER, TOTAL (UG/L AS CU)	08/04/93-08/04/93	0	2	
TUZI0068	No	01042	COPPER, TOTAL (UG/L AS CU)	02/12/80-12/09/80	0	12	
TUZI0069	No	01042	COPPER, TOTAL (UG/L AS CU)	02/25/88-10/25/88	0	4	
TUZI0070	No	01042	COPPER, TOTAL (UG/L AS CU)	02/12/80-12/09/80	0	12	
TUZI0071	No	01042	COPPER, TOTAL (UG/L AS CU)	08/22/73-12/09/80	7	15	
TUZI0074	Yes	01042	COPPER, TOTAL (UG/L AS CU)	08/04/93-08/04/93	0	2	
TUZI0076	Yes	01042	COPPER, TOTAL (UG/L AS CU)	08/04/93-08/04/93	0	1	
TUZI0077	No	01042	COPPER, TOTAL (UG/L AS CU)	08/03/93-08/03/93	0	1	
TUZI0079	No	01042	COPPER, TOTAL (UG/L AS CU)	08/04/93-08/04/93	0	2	
TUZI0082	No	01042	COPPER, TOTAL (UG/L AS CU)	08/03/93-08/03/93	0	1	
TUZI0084	No	01042	COPPER, TOTAL (UG/L AS CU)	08/03/93-08/03/93	0	1	
TUZI0085	No	01042	COPPER, TOTAL (UG/L AS CU)	02/07/73-02/07/73	0	1	
TUZI0087	No	01042	COPPER, TOTAL (UG/L AS CU)	08/03/93-08/03/93	0	1	
TUZI0089	No	01042	COPPER, TOTAL (UG/L AS CU)	08/03/93-08/03/93	0	1	
TUZI0096	No	01042	COPPER, TOTAL (UG/L AS CU)	04/26/90-07/24/91	1	6	
TUZI0097	No	01042	COPPER, TOTAL (UG/L AS CU)	02/26/75-12/29/76	1	2	
TUZI0098	No	01042	COPPER, TOTAL (UG/L AS CU)	03/24/76-07/23/96	20	160	T,A,S
TUZI0100	No	01042	COPPER, TOTAL (UG/L AS CU)	08/31/76-09/09/76	0	3	
TUZI0102	No	01042	COPPER, TOTAL (UG/L AS CU)	01/26/73-09/09/76	3	6	
TUZI0106	No	01042	COPPER, TOTAL (UG/L AS CU)	01/26/73-09/09/76	3	7	
TUZI0013	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	07/27/87-07/27/87	0	1	
TUZI0017	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0019	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0020	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0022	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0024	Yes	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0025	Yes	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0028	Yes	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0030	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0034	Yes	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0035	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0037	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0038	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0039	Yes	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0041	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0048	Yes	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0049	Yes	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0050	Yes	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0052	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0053	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0054	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0055	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0056	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0057	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0058	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0059	Yes	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0060	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0063	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0064	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0066	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/17/80-08/26/80	0	2	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation **From 10/10/51 To 07/23/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
TUZI0067	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0068	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/18/80-08/26/80	0	2	
TUZI0070	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/17/80-08/26/80	0	2	
TUZI0071	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/17/80-08/26/80	0	2	
TUZI0072	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0073	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0074	Yes	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0076	Yes	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0077	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0078	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0079	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0080	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0082	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0084	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0086	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0087	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0089	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0092	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0093	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0095	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0113	No	01044	IRON, SUSPENDED (UG/L AS FE)	07/27/87-07/27/87	0	1	
TUZI0098	No	01044	IRON, SUSPENDED (UG/L AS FE)	04/18/79-09/28/79	0	6	
TUZI0005	No	01045	IRON, TOTAL (UG/L AS FE)	03/19/73-07/26/74	1	2	
TUZI0006	No	01045	IRON, TOTAL (UG/L AS FE)	07/08/77-07/08/77	0	1	
TUZI0008	No	01045	IRON, TOTAL (UG/L AS FE)	02/13/73-02/13/73	0	1	
TUZI0010	No	01045	IRON, TOTAL (UG/L AS FE)	04/15/80-05/21/80	0	2	
TUZI0011	No	01045	IRON, TOTAL (UG/L AS FE)	02/12/80-05/21/80	0	4	
TUZI0012	No	01045	IRON, TOTAL (UG/L AS FE)	02/12/80-05/21/80	0	4	
TUZI0014	No	01045	IRON, TOTAL (UG/L AS FE)	07/30/73-11/30/76	3	2	
TUZI0015	No	01045	IRON, TOTAL (UG/L AS FE)	02/08/73-02/08/73	0	1	
TUZI0018	No	01045	IRON, TOTAL (UG/L AS FE)	08/22/73-08/22/73	0	1	
TUZI0023	No	01045	IRON, TOTAL (UG/L AS FE)	12/06/88-12/06/88	0	1	
TUZI0026	Yes	01045	IRON, TOTAL (UG/L AS FE)	12/06/88-12/06/88	0	1	
TUZI0027	Yes	01045	IRON, TOTAL (UG/L AS FE)	12/06/88-12/06/88	0	1	
TUZI0029	Yes	01045	IRON, TOTAL (UG/L AS FE)	12/06/88-12/06/88	0	1	
TUZI0032	Yes	01045	IRON, TOTAL (UG/L AS FE)	06/21/77-06/21/77	0	1	
TUZI0033	Yes	01045	IRON, TOTAL (UG/L AS FE)	12/06/88-12/06/88	0	1	
TUZI0034	Yes	01045	IRON, TOTAL (UG/L AS FE)	08/04/93-08/04/93	0	1	
TUZI0036	No	01045	IRON, TOTAL (UG/L AS FE)	09/01/76-05/20/80	3	7	
TUZI0042	Yes	01045	IRON, TOTAL (UG/L AS FE)	03/04/63-08/11/75	12	5	
TUZI0043	No	01045	IRON, TOTAL (UG/L AS FE)	01/30/73-08/22/73	0	3	
TUZI0044	No	01045	IRON, TOTAL (UG/L AS FE)	02/08/73-02/08/73	0	1	
TUZI0045	No	01045	IRON, TOTAL (UG/L AS FE)	02/08/73-02/08/73	0	1	
TUZI0046	No	01045	IRON, TOTAL (UG/L AS FE)	01/26/73-04/16/80	7	8	
TUZI0049	Yes	01045	IRON, TOTAL (UG/L AS FE)	08/04/93-08/04/93	0	1	
TUZI0051	No	01045	IRON, TOTAL (UG/L AS FE)	11/15/88-01/07/93	4	31	
TUZI0059	Yes	01045	IRON, TOTAL (UG/L AS FE)	08/04/93-08/04/93	0	1	
TUZI0065	No	01045	IRON, TOTAL (UG/L AS FE)	01/30/73-06/13/79	6	3	
TUZI0066	No	01045	IRON, TOTAL (UG/L AS FE)	02/12/80-04/29/83	3	7	
TUZI0067	No	01045	IRON, TOTAL (UG/L AS FE)	08/04/93-08/04/93	0	2	
TUZI0068	No	01045	IRON, TOTAL (UG/L AS FE)	02/12/80-06/18/80	0	5	
TUZI0069	No	01045	IRON, TOTAL (UG/L AS FE)	02/25/88-10/25/88	0	4	
TUZI0070	No	01045	IRON, TOTAL (UG/L AS FE)	02/12/80-06/17/80	0	5	
TUZI0071	No	01045	IRON, TOTAL (UG/L AS FE)	08/22/73-06/17/80	6	8	
TUZI0074	Yes	01045	IRON, TOTAL (UG/L AS FE)	08/04/93-08/04/93	0	2	
TUZI0076	Yes	01045	IRON, TOTAL (UG/L AS FE)	08/04/93-08/04/93	0	1	
TUZI0077	No	01045	IRON, TOTAL (UG/L AS FE)	08/03/93-08/03/93	0	1	
TUZI0079	No	01045	IRON, TOTAL (UG/L AS FE)	08/04/93-08/04/93	0	2	
TUZI0082	No	01045	IRON, TOTAL (UG/L AS FE)	08/03/93-08/03/93	0	1	
TUZI0084	No	01045	IRON, TOTAL (UG/L AS FE)	08/03/93-08/03/93	0	1	
TUZI0085	No	01045	IRON, TOTAL (UG/L AS FE)	02/07/73-02/07/73	0	1	
TUZI0087	No	01045	IRON, TOTAL (UG/L AS FE)	08/03/93-08/03/93	0	1	
TUZI0089	No	01045	IRON, TOTAL (UG/L AS FE)	08/03/93-08/03/93	0	1	
TUZI0096	No	01045	IRON, TOTAL (UG/L AS FE)	04/26/90-07/24/91	1	6	
TUZI0097	No	01045	IRON, TOTAL (UG/L AS FE)	02/26/75-12/29/76	1	2	
TUZI0098	No	01045	IRON, TOTAL (UG/L AS FE)	03/24/76-07/23/96	20	140	T,A,S
TUZI0100	No	01045	IRON, TOTAL (UG/L AS FE)	08/31/76-09/09/76	0	3	
TUZI0102	No	01045	IRON, TOTAL (UG/L AS FE)	01/26/73-09/09/76	3	6	
TUZI0106	No	01045	IRON, TOTAL (UG/L AS FE)	01/26/73-09/09/76	3	8	
TUZI0001	No	01046	IRON, DISSOLVED (UG/L AS FE)	07/07/78-07/07/78	0	1	
TUZI0002	No	01046	IRON, DISSOLVED (UG/L AS FE)	02/24/78-07/21/93	15	3	
TUZI0003	No	01046	IRON, DISSOLVED (UG/L AS FE)	02/24/78-02/24/78	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

**Station/Parameter Period of Record Tabulation
From 10/10/51 To 07/23/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
TUZI0004	No	01046	IRON, DISSOLVED (UG/L AS FE)	12/20/77-12/20/77	0	1	
TUZI0006	No	01046	IRON, DISSOLVED (UG/L AS FE)	07/20/93-07/20/93	0	1	
TUZI0007	No	01046	IRON, DISSOLVED (UG/L AS FE)	07/08/78-07/08/78	0	1	
TUZI0010	No	01046	IRON, DISSOLVED (UG/L AS FE)	04/15/80-04/15/80	0	1	
TUZI0011	No	01046	IRON, DISSOLVED (UG/L AS FE)	04/15/80-04/15/80	0	1	
TUZI0012	No	01046	IRON, DISSOLVED (UG/L AS FE)	04/15/80-04/15/80	0	1	
TUZI0014	No	01046	IRON, DISSOLVED (UG/L AS FE)	02/09/78-07/26/93	15	2	
TUZI0021	No	01046	IRON, DISSOLVED (UG/L AS FE)	05/04/78-05/04/78	0	1	
TUZI0031	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	06/12/79-06/12/79	0	1	
TUZI0032	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	06/21/77-06/21/77	0	1	
TUZI0036	No	01046	IRON, DISSOLVED (UG/L AS FE)	04/16/80-04/16/80	0	1	
TUZI0046	No	01046	IRON, DISSOLVED (UG/L AS FE)	04/16/80-04/16/80	0	1	
TUZI0047	No	01046	IRON, DISSOLVED (UG/L AS FE)	06/12/79-06/12/79	0	1	
TUZI0051	No	01046	IRON, DISSOLVED (UG/L AS FE)	11/15/88-01/07/93	4	12	
TUZI0061	No	01046	IRON, DISSOLVED (UG/L AS FE)	02/25/81-02/25/81	0	1	
TUZI0066	No	01046	IRON, DISSOLVED (UG/L AS FE)	04/15/80-12/09/80	0	10	
TUZI0068	No	01046	IRON, DISSOLVED (UG/L AS FE)	04/15/80-12/09/80	0	10	
TUZI0070	No	01046	IRON, DISSOLVED (UG/L AS FE)	04/15/80-12/09/80	0	10	
TUZI0071	No	01046	IRON, DISSOLVED (UG/L AS FE)	04/15/80-12/09/80	0	11	
TUZI0075	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	07/08/78-07/08/78	0	1	
TUZI0081	No	01046	IRON, DISSOLVED (UG/L AS FE)	02/08/78-02/08/78	0	1	
TUZI0090	No	01046	IRON, DISSOLVED (UG/L AS FE)	02/25/81-02/25/81	0	1	
TUZI0098	No	01046	IRON, DISSOLVED (UG/L AS FE)	03/24/76-07/23/96	20	146	T,A,S
TUZI0103	No	01046	IRON, DISSOLVED (UG/L AS FE)	04/26/77-04/26/77	0	1	
TUZI0105	No	01046	IRON, DISSOLVED (UG/L AS FE)	03/23/78-03/23/78	0	1	
TUZI0110	No	01046	IRON, DISSOLVED (UG/L AS FE)	07/21/78-07/21/78	0	1	
TUZI0115	No	01046	IRON, DISSOLVED (UG/L AS FE)	06/08/77-06/08/77	0	1	
TUZI0036	No	01047	IRON, FERROUS (UG/L AS FE)	05/20/80-05/20/80	0	1	
TUZI0002	No	01049	LEAD, DISSOLVED (UG/L AS PB)	07/21/93-07/21/93	0	1	
TUZI0006	No	01049	LEAD, DISSOLVED (UG/L AS PB)	07/20/93-07/20/93	0	1	
TUZI0010	No	01049	LEAD, DISSOLVED (UG/L AS PB)	04/15/80-04/15/80	0	1	
TUZI0011	No	01049	LEAD, DISSOLVED (UG/L AS PB)	04/15/80-04/15/80	0	1	
TUZI0012	No	01049	LEAD, DISSOLVED (UG/L AS PB)	04/15/80-04/15/80	0	1	
TUZI0014	No	01049	LEAD, DISSOLVED (UG/L AS PB)	07/26/93-07/26/93	0	1	
TUZI0036	No	01049	LEAD, DISSOLVED (UG/L AS PB)	04/16/80-04/16/80	0	1	
TUZI0046	No	01049	LEAD, DISSOLVED (UG/L AS PB)	04/16/80-04/16/80	0	1	
TUZI0047	No	01049	LEAD, DISSOLVED (UG/L AS PB)	06/12/79-06/12/79	0	1	
TUZI0051	No	01049	LEAD, DISSOLVED (UG/L AS PB)	11/15/88-01/07/93	4	12	
TUZI0061	No	01049	LEAD, DISSOLVED (UG/L AS PB)	02/25/81-02/25/81	0	1	
TUZI0066	No	01049	LEAD, DISSOLVED (UG/L AS PB)	04/15/80-12/09/80	0	10	
TUZI0068	No	01049	LEAD, DISSOLVED (UG/L AS PB)	04/15/80-12/09/80	0	10	
TUZI0070	No	01049	LEAD, DISSOLVED (UG/L AS PB)	04/15/80-12/09/80	0	10	
TUZI0071	No	01049	LEAD, DISSOLVED (UG/L AS PB)	04/15/80-12/09/80	0	11	
TUZI0090	No	01049	LEAD, DISSOLVED (UG/L AS PB)	02/25/81-02/25/81	0	1	
TUZI0098	No	01049	LEAD, DISSOLVED (UG/L AS PB)	01/21/81-07/23/96	15	126	A
TUZI0047	No	01050	LEAD, SUSPENDED (UG/L AS PB)	06/12/79-06/12/79	0	1	
TUZI0005	No	01051	LEAD, TOTAL (UG/L AS PB)	03/19/73-07/26/74	1	2	
TUZI0008	No	01051	LEAD, TOTAL (UG/L AS PB)	02/13/73-02/13/73	0	1	
TUZI0010	No	01051	LEAD, TOTAL (UG/L AS PB)	04/15/80-05/21/80	0	2	
TUZI0011	No	01051	LEAD, TOTAL (UG/L AS PB)	02/12/80-05/21/80	0	4	
TUZI0012	No	01051	LEAD, TOTAL (UG/L AS PB)	02/12/80-05/21/80	0	4	
TUZI0013	No	01051	LEAD, TOTAL (UG/L AS PB)	07/28/87-07/28/87	0	1	
TUZI0015	No	01051	LEAD, TOTAL (UG/L AS PB)	02/08/73-02/08/73	0	1	
TUZI0018	No	01051	LEAD, TOTAL (UG/L AS PB)	08/22/73-08/22/73	0	1	
TUZI0023	No	01051	LEAD, TOTAL (UG/L AS PB)	12/06/88-12/06/88	0	1	
TUZI0026	Yes	01051	LEAD, TOTAL (UG/L AS PB)	12/06/88-12/06/88	0	1	
TUZI0027	Yes	01051	LEAD, TOTAL (UG/L AS PB)	12/06/88-12/06/88	0	1	
TUZI0029	Yes	01051	LEAD, TOTAL (UG/L AS PB)	12/06/88-12/06/88	0	1	
TUZI0032	Yes	01051	LEAD, TOTAL (UG/L AS PB)	06/21/77-06/21/77	0	1	
TUZI0033	Yes	01051	LEAD, TOTAL (UG/L AS PB)	12/06/88-12/06/88	0	1	
TUZI0034	Yes	01051	LEAD, TOTAL (UG/L AS PB)	08/04/93-08/04/93	0	1	
TUZI0036	No	01051	LEAD, TOTAL (UG/L AS PB)	09/01/76-05/20/80	3	7	
TUZI0043	No	01051	LEAD, TOTAL (UG/L AS PB)	01/30/73-01/30/73	0	1	
TUZI0044	No	01051	LEAD, TOTAL (UG/L AS PB)	02/08/73-02/08/73	0	1	
TUZI0045	No	01051	LEAD, TOTAL (UG/L AS PB)	02/08/73-02/08/73	0	1	
TUZI0046	No	01051	LEAD, TOTAL (UG/L AS PB)	01/30/73-04/16/80	7	6	
TUZI0047	No	01051	LEAD, TOTAL (UG/L AS PB)	06/12/79-06/12/79	0	1	
TUZI0051	No	01051	LEAD, TOTAL (UG/L AS PB)	11/15/88-01/07/93	4	31	
TUZI0065	No	01051	LEAD, TOTAL (UG/L AS PB)	01/30/73-06/13/79	6	2	
TUZI0066	No	01051	LEAD, TOTAL (UG/L AS PB)	02/12/80-04/29/83	3	7	
TUZI0067	No	01051	LEAD, TOTAL (UG/L AS PB)	08/04/93-08/04/93	0	2	
TUZI0068	No	01051	LEAD, TOTAL (UG/L AS PB)	02/12/80-06/18/80	0	5	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

**Station/Parameter Period of Record Tabulation
From 10/10/51 To 07/23/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
TUZI0069	No	01051	LEAD, TOTAL (UG/L AS PB)	02/25/88-10/25/88	0	4	
TUZI0070	No	01051	LEAD, TOTAL (UG/L AS PB)	02/12/80-06/17/80	0	5	
TUZI0071	No	01051	LEAD, TOTAL (UG/L AS PB)	08/22/73-06/17/80	6	8	
TUZI0076	Yes	01051	LEAD, TOTAL (UG/L AS PB)	08/04/93-08/04/93	0	1	
TUZI0077	No	01051	LEAD, TOTAL (UG/L AS PB)	08/03/93-08/03/93	0	1	
TUZI0079	No	01051	LEAD, TOTAL (UG/L AS PB)	08/04/93-08/04/93	0	2	
TUZI0082	No	01051	LEAD, TOTAL (UG/L AS PB)	08/03/93-08/03/93	0	1	
TUZI0084	No	01051	LEAD, TOTAL (UG/L AS PB)	08/03/93-08/03/93	0	1	
TUZI0087	No	01051	LEAD, TOTAL (UG/L AS PB)	08/03/93-08/03/93	0	1	
TUZI0089	No	01051	LEAD, TOTAL (UG/L AS PB)	08/03/93-08/03/93	0	1	
TUZI0096	No	01051	LEAD, TOTAL (UG/L AS PB)	04/26/90-07/24/91	1	6	
TUZI0097	No	01051	LEAD, TOTAL (UG/L AS PB)	11/12/74-03/25/75	0	5	
TUZI0098	No	01051	LEAD, TOTAL (UG/L AS PB)	03/24/76-07/23/96	20	138	T,A,S
TUZI0100	No	01051	LEAD, TOTAL (UG/L AS PB)	10/10/74-09/09/76	1	4	
TUZI0102	No	01051	LEAD, TOTAL (UG/L AS PB)	01/30/73-09/09/76	3	5	
TUZI0106	No	01051	LEAD, TOTAL (UG/L AS PB)	01/30/73-09/09/76	3	6	
TUZI0013	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	07/27/87-07/27/87	0	1	
TUZI0017	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0019	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0020	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0022	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0024	Yes	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0025	Yes	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0028	Yes	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0030	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0034	Yes	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0035	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0037	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0038	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0039	Yes	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0041	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0048	Yes	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0049	Yes	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0050	Yes	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0052	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0053	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0054	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0055	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0056	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0057	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0058	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0059	Yes	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0060	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0063	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0064	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0066	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/17/80-08/26/80	0	2	
TUZI0067	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0068	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/18/80-08/26/80	0	2	
TUZI0070	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/17/80-08/26/80	0	2	
TUZI0071	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/17/80-08/26/80	0	2	
TUZI0072	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0073	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0074	Yes	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0076	Yes	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0077	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0078	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0079	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0080	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0082	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0084	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0086	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0087	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0089	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0092	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0093	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0095	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0017	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0019	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0020	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0022	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0024	Yes	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0025	Yes	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/30/92-06/30/92	0	2	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation **From 10/10/51 To 07/23/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
TUZI0028	Yes	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0030	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0034	Yes	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0035	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0037	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0038	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0039	Yes	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0041	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0048	Yes	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0049	Yes	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0050	Yes	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0052	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0053	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0054	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0055	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0056	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0057	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0058	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0059	Yes	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0060	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0063	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0064	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0067	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0072	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0073	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0074	Yes	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0076	Yes	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0077	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0078	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0079	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0080	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0082	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0084	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0086	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0087	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0089	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0092	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0093	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0095	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0098	No	01054	MANGANESE, SUSPENDED (UG/L AS MN)	04/18/79-10/24/79	0	7	
TUZI0005	No	01055	MANGANESE, TOTAL (UG/L AS MN)	03/19/73-07/26/74	1	2	
TUZI0006	No	01055	MANGANESE, TOTAL (UG/L AS MN)	07/08/77-07/08/77	0	1	
TUZI0010	No	01055	MANGANESE, TOTAL (UG/L AS MN)	04/15/80-05/21/80	0	2	
TUZI0011	No	01055	MANGANESE, TOTAL (UG/L AS MN)	02/12/80-05/21/80	0	4	
TUZI0012	No	01055	MANGANESE, TOTAL (UG/L AS MN)	02/12/80-05/21/80	0	4	
TUZI0014	No	01055	MANGANESE, TOTAL (UG/L AS MN)	07/30/73-11/30/76	3	2	
TUZI0023	No	01055	MANGANESE, TOTAL (UG/L AS MN)	12/06/88-12/06/88	0	1	
TUZI0026	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	12/06/88-12/06/88	0	1	
TUZI0027	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	12/06/88-12/06/88	0	1	
TUZI0029	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	12/06/88-12/06/88	0	1	
TUZI0032	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	06/21/77-06/21/77	0	1	
TUZI0033	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	12/06/88-12/06/88	0	1	
TUZI0034	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	08/04/93-08/04/93	0	1	
TUZI0036	No	01055	MANGANESE, TOTAL (UG/L AS MN)	09/01/76-05/20/80	3	7	
TUZI0042	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	08/11/75-08/11/75	0	1	
TUZI0043	No	01055	MANGANESE, TOTAL (UG/L AS MN)	01/30/73-01/30/73	0	1	
TUZI0046	No	01055	MANGANESE, TOTAL (UG/L AS MN)	01/30/73-04/16/80	7	4	
TUZI0049	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	08/04/93-08/04/93	0	1	
TUZI0051	No	01055	MANGANESE, TOTAL (UG/L AS MN)	11/15/88-01/07/93	4	31	
TUZI0059	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	08/04/93-08/04/93	0	1	
TUZI0065	No	01055	MANGANESE, TOTAL (UG/L AS MN)	01/30/73-06/13/79	6	2	
TUZI0066	No	01055	MANGANESE, TOTAL (UG/L AS MN)	02/12/80-04/29/83	3	6	
TUZI0067	No	01055	MANGANESE, TOTAL (UG/L AS MN)	08/04/93-08/04/93	0	2	
TUZI0068	No	01055	MANGANESE, TOTAL (UG/L AS MN)	02/12/80-05/20/80	0	4	
TUZI0069	No	01055	MANGANESE, TOTAL (UG/L AS MN)	02/25/88-10/25/88	0	4	
TUZI0070	No	01055	MANGANESE, TOTAL (UG/L AS MN)	02/12/80-05/20/80	0	4	
TUZI0071	No	01055	MANGANESE, TOTAL (UG/L AS MN)	02/12/80-05/20/80	0	5	
TUZI0074	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	08/04/93-08/04/93	0	2	
TUZI0076	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	08/04/93-08/04/93	0	1	
TUZI0077	No	01055	MANGANESE, TOTAL (UG/L AS MN)	08/03/93-08/03/93	0	1	
TUZI0079	No	01055	MANGANESE, TOTAL (UG/L AS MN)	08/04/93-08/04/93	0	2	
TUZI0082	No	01055	MANGANESE, TOTAL (UG/L AS MN)	08/03/93-08/03/93	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 10/10/51 To 07/23/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
TUZI0084	No	01055	MANGANESE, TOTAL (UG/L AS MN)	08/03/93-08/03/93	0	1	
TUZI0087	No	01055	MANGANESE, TOTAL (UG/L AS MN)	08/03/93-08/03/93	0	1	
TUZI0089	No	01055	MANGANESE, TOTAL (UG/L AS MN)	08/03/93-08/03/93	0	1	
TUZI0096	No	01055	MANGANESE, TOTAL (UG/L AS MN)	04/26/90-07/24/91	1	6	
TUZI0097	No	01055	MANGANESE, TOTAL (UG/L AS MN)	02/26/75-12/29/76	1	2	
TUZI0098	No	01055	MANGANESE, TOTAL (UG/L AS MN)	03/24/76-07/23/96	20	140	T,A,S
TUZI0100	No	01055	MANGANESE, TOTAL (UG/L AS MN)	08/31/76-09/09/76	0	3	
TUZI0102	No	01055	MANGANESE, TOTAL (UG/L AS MN)	01/30/73-09/09/76	3	4	
TUZI0106	No	01055	MANGANESE, TOTAL (UG/L AS MN)	01/30/73-09/09/76	3	4	
TUZI0002	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	02/24/78-07/21/93	15	3	
TUZI0003	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	02/24/78-02/24/78	0	1	
TUZI0004	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	12/20/77-12/20/77	0	1	
TUZI0006	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/20/93-07/20/93	0	1	
TUZI0010	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/15/80-04/15/80	0	1	
TUZI0011	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/15/80-04/15/80	0	1	
TUZI0012	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/15/80-04/15/80	0	1	
TUZI0014	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	02/09/78-07/26/93	15	2	
TUZI0021	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/04/78-05/04/78	0	1	
TUZI0032	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	06/21/77-06/21/77	0	1	
TUZI0036	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/16/80-04/16/80	0	1	
TUZI0046	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/16/80-04/16/80	0	1	
TUZI0051	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/15/88-01/07/93	4	12	
TUZI0061	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	02/25/81-02/25/81	0	1	
TUZI0066	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/15/80-04/15/80	0	1	
TUZI0068	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/15/80-04/15/80	0	1	
TUZI0070	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/15/80-04/15/80	0	1	
TUZI0071	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/15/80-08/05/80	0	2	
TUZI0081	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	02/08/78-02/08/78	0	1	
TUZI0090	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	02/25/81-02/25/81	0	1	
TUZI0098	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/24/76-07/23/96	20	146	T,A,S
TUZI0115	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	06/08/77-06/08/77	0	1	
TUZI0051	No	01057	THALLIUM, DISSOLVED (UG/L AS TL)	11/15/88-01/07/93	4	12	
TUZI0013	No	01059	THALLIUM, TOTAL (UG/L AS TL)	07/28/87-07/28/87	0	1	
TUZI0023	No	01059	THALLIUM, TOTAL (UG/L AS TL)	12/06/88-12/06/88	0	1	
TUZI0026	Yes	01059	THALLIUM, TOTAL (UG/L AS TL)	12/06/88-12/06/88	0	1	
TUZI0027	Yes	01059	THALLIUM, TOTAL (UG/L AS TL)	12/06/88-12/06/88	0	1	
TUZI0029	Yes	01059	THALLIUM, TOTAL (UG/L AS TL)	12/06/88-12/06/88	0	1	
TUZI0033	Yes	01059	THALLIUM, TOTAL (UG/L AS TL)	12/06/88-12/06/88	0	1	
TUZI0034	Yes	01059	THALLIUM, TOTAL (UG/L AS TL)	08/04/93-08/04/93	0	1	
TUZI0049	Yes	01059	THALLIUM, TOTAL (UG/L AS TL)	08/04/93-08/04/93	0	1	
TUZI0051	No	01059	THALLIUM, TOTAL (UG/L AS TL)	11/15/88-01/07/93	4	30	
TUZI0059	Yes	01059	THALLIUM, TOTAL (UG/L AS TL)	08/04/93-08/04/93	0	1	
TUZI0067	No	01059	THALLIUM, TOTAL (UG/L AS TL)	08/04/93-08/04/93	0	2	
TUZI0069	No	01059	THALLIUM, TOTAL (UG/L AS TL)	05/26/88-10/25/88	0	3	
TUZI0074	Yes	01059	THALLIUM, TOTAL (UG/L AS TL)	08/04/93-08/04/93	0	2	
TUZI0076	Yes	01059	THALLIUM, TOTAL (UG/L AS TL)	08/04/93-08/04/93	0	1	
TUZI0077	No	01059	THALLIUM, TOTAL (UG/L AS TL)	08/03/93-08/03/93	0	1	
TUZI0079	No	01059	THALLIUM, TOTAL (UG/L AS TL)	08/04/93-08/04/93	0	2	
TUZI0082	No	01059	THALLIUM, TOTAL (UG/L AS TL)	08/03/93-08/03/93	0	1	
TUZI0084	No	01059	THALLIUM, TOTAL (UG/L AS TL)	08/03/93-08/03/93	0	1	
TUZI0087	No	01059	THALLIUM, TOTAL (UG/L AS TL)	08/03/93-08/03/93	0	1	
TUZI0089	No	01059	THALLIUM, TOTAL (UG/L AS TL)	08/03/93-08/03/93	0	1	
TUZI0096	No	01059	THALLIUM, TOTAL (UG/L AS TL)	04/26/90-07/24/91	1	6	
TUZI0098	No	01059	THALLIUM, TOTAL (UG/L AS TL)	12/15/88-12/14/89	0	7	
TUZI0001	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/07/78-07/07/78	0	1	
TUZI0002	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/21/93-07/21/93	0	1	
TUZI0006	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/20/93-07/20/93	0	1	
TUZI0007	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/08/78-07/08/78	0	1	
TUZI0014	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/26/93-07/26/93	0	1	
TUZI0061	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	02/25/81-02/25/81	0	1	
TUZI0075	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/08/78-07/08/78	0	1	
TUZI0090	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	02/25/81-02/25/81	0	1	
TUZI0105	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	03/23/78-03/23/78	0	1	
TUZI0110	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/21/78-07/21/78	0	1	
TUZI0051	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	11/15/88-01/07/93	4	12	
TUZI0098	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	08/23/95-07/23/96	0	5	
TUZI0013	No	01067	NICKEL, TOTAL (UG/L AS NI)	07/28/87-07/28/87	0	1	
TUZI0023	No	01067	NICKEL, TOTAL (UG/L AS NI)	12/06/88-12/06/88	0	1	
TUZI0026	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	12/06/88-12/06/88	0	1	
TUZI0027	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	12/06/88-12/06/88	0	1	
TUZI0029	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	12/06/88-12/06/88	0	1	
TUZI0033	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	12/06/88-12/06/88	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation **From 10/10/51 To 07/23/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
TUZI0034	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	08/04/93-08/04/93	0	1	
TUZI0049	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	08/04/93-08/04/93	0	1	
TUZI0051	No	01067	NICKEL, TOTAL (UG/L AS NI)	11/15/88-01/07/93	4	31	
TUZI0059	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	08/04/93-08/04/93	0	1	
TUZI0067	No	01067	NICKEL, TOTAL (UG/L AS NI)	08/04/93-08/04/93	0	2	
TUZI0069	No	01067	NICKEL, TOTAL (UG/L AS NI)	05/26/88-10/25/88	0	3	
TUZI0074	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	08/04/93-08/04/93	0	2	
TUZI0076	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	08/04/93-08/04/93	0	1	
TUZI0077	No	01067	NICKEL, TOTAL (UG/L AS NI)	08/03/93-08/03/93	0	1	
TUZI0079	No	01067	NICKEL, TOTAL (UG/L AS NI)	08/04/93-08/04/93	0	2	
TUZI0082	No	01067	NICKEL, TOTAL (UG/L AS NI)	08/03/93-08/03/93	0	1	
TUZI0084	No	01067	NICKEL, TOTAL (UG/L AS NI)	08/03/93-08/03/93	0	1	
TUZI0087	No	01067	NICKEL, TOTAL (UG/L AS NI)	08/03/93-08/03/93	0	1	
TUZI0089	No	01067	NICKEL, TOTAL (UG/L AS NI)	08/03/93-08/03/93	0	1	
TUZI0096	No	01067	NICKEL, TOTAL (UG/L AS NI)	04/26/90-07/24/91	1	6	
TUZI0098	No	01067	NICKEL, TOTAL (UG/L AS NI)	10/19/88-07/23/96	7	32	
TUZI0013	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	07/27/87-07/27/87	0	1	
TUZI0017	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0019	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0020	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0022	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0024	Yes	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0025	Yes	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0028	Yes	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0030	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0034	Yes	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0035	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0037	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0038	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0039	Yes	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0041	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0048	Yes	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0049	Yes	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0050	Yes	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0052	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0053	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0054	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0055	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0056	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0057	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0058	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0059	Yes	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0060	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0063	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0064	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0067	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0072	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0073	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0074	Yes	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0076	Yes	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0077	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0078	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0079	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0080	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0084	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0086	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0087	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0089	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0092	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0093	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0095	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0013	No	01069	NICKEL, TOTAL IN FISH OR ANIMALS-WET WEIGHT MG/KG	07/27/87-07/27/87	0	1	
TUZI0036	No	01072	PHOSPHORUS, DISS, SPECTROGRAPH METH (UG/L AS P)	08/26/80-08/26/80	0	1	
TUZI0013	No	01073	THALLIUM, TISSUE, WET WEIGHT, MG/KG	07/27/87-07/27/87	0	1	
TUZI0051	No	01075	SILVER, DISSOLVED (UG/L AS AG)	11/15/88-01/07/93	4	12	
TUZI0066	No	01075	SILVER, DISSOLVED (UG/L AS AG)	05/20/80-05/20/80	0	1	
TUZI0068	No	01075	SILVER, DISSOLVED (UG/L AS AG)	05/20/80-05/20/80	0	1	
TUZI0070	No	01075	SILVER, DISSOLVED (UG/L AS AG)	05/20/80-05/20/80	0	1	
TUZI0071	No	01075	SILVER, DISSOLVED (UG/L AS AG)	05/20/80-08/05/80	0	2	
TUZI0098	No	01075	SILVER, DISSOLVED (UG/L AS AG)	10/22/86-07/23/96	9	95	
TUZI0005	No	01077	SILVER, TOTAL (UG/L AS AG)	03/19/73-07/26/74	1	2	
TUZI0008	No	01077	SILVER, TOTAL (UG/L AS AG)	02/13/73-02/13/73	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

**Station/Parameter Period of Record Tabulation
From 10/10/51 To 07/23/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
TUZI0010	No	01077	SILVER, TOTAL (UG/L AS AG)	04/15/80-04/15/80	0	1	
TUZI0011	No	01077	SILVER, TOTAL (UG/L AS AG)	03/18/80-03/18/80	0	1	
TUZI0012	No	01077	SILVER, TOTAL (UG/L AS AG)	02/12/80-03/18/80	0	2	
TUZI0013	No	01077	SILVER, TOTAL (UG/L AS AG)	07/28/87-07/28/87	0	1	
TUZI0015	No	01077	SILVER, TOTAL (UG/L AS AG)	02/08/73-02/08/73	0	1	
TUZI0018	No	01077	SILVER, TOTAL (UG/L AS AG)	08/22/73-08/22/73	0	1	
TUZI0023	No	01077	SILVER, TOTAL (UG/L AS AG)	12/06/88-12/06/88	0	1	
TUZI0026	Yes	01077	SILVER, TOTAL (UG/L AS AG)	12/06/88-12/06/88	0	1	
TUZI0027	Yes	01077	SILVER, TOTAL (UG/L AS AG)	12/06/88-12/06/88	0	1	
TUZI0029	Yes	01077	SILVER, TOTAL (UG/L AS AG)	12/06/88-12/06/88	0	1	
TUZI0032	Yes	01077	SILVER, TOTAL (UG/L AS AG)	06/21/77-06/21/77	0	1	
TUZI0033	Yes	01077	SILVER, TOTAL (UG/L AS AG)	12/06/88-12/06/88	0	1	
TUZI0034	Yes	01077	SILVER, TOTAL (UG/L AS AG)	08/04/93-08/04/93	0	1	
TUZI0036	No	01077	SILVER, TOTAL (UG/L AS AG)	09/01/76-03/18/80	3	4	
TUZI0043	No	01077	SILVER, TOTAL (UG/L AS AG)	01/30/73-01/30/73	0	1	
TUZI0044	No	01077	SILVER, TOTAL (UG/L AS AG)	02/08/73-02/08/73	0	1	
TUZI0045	No	01077	SILVER, TOTAL (UG/L AS AG)	02/08/73-02/08/73	0	1	
TUZI0046	No	01077	SILVER, TOTAL (UG/L AS AG)	01/30/73-03/18/80	7	4	
TUZI0049	Yes	01077	SILVER, TOTAL (UG/L AS AG)	08/04/93-08/04/93	0	1	
TUZI0051	No	01077	SILVER, TOTAL (UG/L AS AG)	11/15/88-01/07/93	4	31	
TUZI0059	Yes	01077	SILVER, TOTAL (UG/L AS AG)	08/04/93-08/04/93	0	1	
TUZI0065	No	01077	SILVER, TOTAL (UG/L AS AG)	01/30/73-06/13/79	6	2	
TUZI0066	No	01077	SILVER, TOTAL (UG/L AS AG)	03/19/80-04/29/83	3	2	
TUZI0067	No	01077	SILVER, TOTAL (UG/L AS AG)	08/04/93-08/04/93	0	2	
TUZI0068	No	01077	SILVER, TOTAL (UG/L AS AG)	03/18/80-04/15/80	0	2	
TUZI0069	No	01077	SILVER, TOTAL (UG/L AS AG)	02/25/88-10/25/88	0	4	
TUZI0070	No	01077	SILVER, TOTAL (UG/L AS AG)	03/18/80-03/18/80	0	1	
TUZI0071	No	01077	SILVER, TOTAL (UG/L AS AG)	08/22/73-04/15/80	6	3	
TUZI0074	Yes	01077	SILVER, TOTAL (UG/L AS AG)	08/04/93-08/04/93	0	2	
TUZI0076	Yes	01077	SILVER, TOTAL (UG/L AS AG)	08/04/93-08/04/93	0	1	
TUZI0077	No	01077	SILVER, TOTAL (UG/L AS AG)	08/03/93-08/03/93	0	1	
TUZI0079	No	01077	SILVER, TOTAL (UG/L AS AG)	08/04/93-08/04/93	0	2	
TUZI0082	No	01077	SILVER, TOTAL (UG/L AS AG)	08/03/93-08/03/93	0	1	
TUZI0084	No	01077	SILVER, TOTAL (UG/L AS AG)	08/03/93-08/03/93	0	1	
TUZI0087	No	01077	SILVER, TOTAL (UG/L AS AG)	08/03/93-08/03/93	0	1	
TUZI0089	No	01077	SILVER, TOTAL (UG/L AS AG)	08/03/93-08/03/93	0	1	
TUZI0096	No	01077	SILVER, TOTAL (UG/L AS AG)	04/26/90-07/24/91	1	6	
TUZI0097	No	01077	SILVER, TOTAL (UG/L AS AG)	11/12/74-03/25/75	0	5	
TUZI0098	No	01077	SILVER, TOTAL (UG/L AS AG)	03/24/76-10/24/79	3	41	
TUZI0100	No	01077	SILVER, TOTAL (UG/L AS AG)	10/10/74-09/09/76	1	4	
TUZI0102	No	01077	SILVER, TOTAL (UG/L AS AG)	01/30/73-09/09/76	3	5	
TUZI0106	No	01077	SILVER, TOTAL (UG/L AS AG)	01/30/73-09/09/76	3	6	
TUZI0013	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	07/27/87-07/27/87	0	1	
TUZI0017	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0019	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0020	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0022	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0024	Yes	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0025	Yes	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0028	Yes	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0030	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0034	Yes	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0035	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0037	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0038	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0039	Yes	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0041	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0048	Yes	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0049	Yes	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0050	Yes	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0052	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0053	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0054	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0055	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0056	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0057	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0058	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0059	Yes	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0060	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0063	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0064	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0067	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/04/93-08/04/93	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

**Station/Parameter Period of Record Tabulation
From 10/10/51 To 07/23/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
TUZI0072	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0073	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0074	Yes	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0076	Yes	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0077	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0078	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0079	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0080	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0082	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0084	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0086	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0087	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0089	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0092	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0093	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0095	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0002	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	07/21/93-07/21/93	0	1	
TUZI0006	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	07/20/93-07/20/93	0	1	
TUZI0014	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	07/26/93-07/26/93	0	1	
TUZI0051	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/15/92-01/07/93	0	2	
TUZI0061	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	02/25/81-02/25/81	0	1	
TUZI0090	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	02/25/81-02/25/81	0	1	
TUZI0098	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	07/03/91-07/03/91	0	1	
TUZI0101	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	07/02/91-07/02/91	0	1	
TUZI0104	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	07/02/91-07/02/91	0	1	
TUZI0108	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	07/04/91-07/04/91	0	1	
TUZI0034	Yes	01081	STRONTIUM, SUSPENDED (UG/L AS SR)	08/04/93-08/04/93	0	1	
TUZI0049	Yes	01081	STRONTIUM, SUSPENDED (UG/L AS SR)	08/04/93-08/04/93	0	1	
TUZI0059	Yes	01081	STRONTIUM, SUSPENDED (UG/L AS SR)	08/04/93-08/04/93	0	1	
TUZI0067	No	01081	STRONTIUM, SUSPENDED (UG/L AS SR)	08/04/93-08/04/93	0	2	
TUZI0074	Yes	01081	STRONTIUM, SUSPENDED (UG/L AS SR)	08/04/93-08/04/93	0	2	
TUZI0076	Yes	01081	STRONTIUM, SUSPENDED (UG/L AS SR)	08/04/93-08/04/93	0	1	
TUZI0077	No	01081	STRONTIUM, SUSPENDED (UG/L AS SR)	08/03/93-08/03/93	0	1	
TUZI0079	No	01081	STRONTIUM, SUSPENDED (UG/L AS SR)	08/04/93-08/04/93	0	2	
TUZI0082	No	01081	STRONTIUM, SUSPENDED (UG/L AS SR)	08/03/93-08/03/93	0	1	
TUZI0084	No	01081	STRONTIUM, SUSPENDED (UG/L AS SR)	08/03/93-08/03/93	0	1	
TUZI0087	No	01081	STRONTIUM, SUSPENDED (UG/L AS SR)	08/03/93-08/03/93	0	1	
TUZI0089	No	01081	STRONTIUM, SUSPENDED (UG/L AS SR)	08/03/93-08/03/93	0	1	
TUZI0051	No	01082	STRONTIUM, TOTAL (UG/L AS SR)	03/11/92-01/07/93	0	5	
TUZI0001	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	07/07/78-07/07/78	0	1	
TUZI0002	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	07/21/93-07/21/93	0	1	
TUZI0006	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	07/20/93-07/20/93	0	1	
TUZI0007	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	07/08/78-07/08/78	0	1	
TUZI0014	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	07/26/93-07/26/93	0	1	
TUZI0061	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	02/25/81-02/25/81	0	1	
TUZI0075	Yes	01085	VANADIUM, DISSOLVED (UG/L AS V)	07/08/78-07/08/78	0	1	
TUZI0090	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	02/25/81-02/25/81	0	1	
TUZI0105	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	03/23/78-03/23/78	0	1	
TUZI0110	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	07/21/78-07/21/78	0	1	
TUZI0017	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0019	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0020	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0022	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0024	Yes	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0025	Yes	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0028	Yes	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0030	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0034	Yes	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0035	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0037	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0038	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0039	Yes	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0041	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0048	Yes	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0049	Yes	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0050	Yes	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0052	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0053	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0054	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0055	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0056	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0057	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/04/93-08/04/93	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

**Station/Parameter Period of Record Tabulation
From 10/10/51 To 07/23/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
TUZI0058	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0059	Yes	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0060	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0063	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0064	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0067	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0072	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0073	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0074	Yes	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0076	Yes	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0077	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0078	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0079	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0080	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0084	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0086	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0087	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0089	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0092	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0093	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0095	No	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0001	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	07/07/78-07/07/78	0	1	
TUZI0002	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	07/21/93-07/21/93	0	1	
TUZI0006	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	07/20/93-07/20/93	0	1	
TUZI0007	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	07/08/78-07/08/78	0	1	
TUZI0010	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	04/15/80-04/15/80	0	1	
TUZI0011	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	04/15/80-04/15/80	0	1	
TUZI0012	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	04/15/80-04/15/80	0	1	
TUZI0014	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	07/26/93-07/26/93	0	1	
TUZI0036	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	04/16/80-04/16/80	0	1	
TUZI0046	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	04/16/80-04/16/80	0	1	
TUZI0051	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	11/15/88-01/07/93	4	12	
TUZI0061	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	02/25/81-02/25/81	0	1	
TUZI0066	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	04/15/80-12/09/80	0	10	
TUZI0068	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	04/15/80-12/09/80	0	10	
TUZI0070	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	04/15/80-12/09/80	0	10	
TUZI0071	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	04/15/80-12/09/80	0	11	
TUZI0075	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	07/08/78-07/08/78	0	1	
TUZI0090	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	02/25/81-02/25/81	0	1	
TUZI0098	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	01/21/81-07/23/96	15	115	
TUZI0105	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	03/23/78-03/23/78	0	1	
TUZI0110	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	07/21/78-07/21/78	0	1	
TUZI0005	No	01092	ZINC, TOTAL (UG/L AS ZN)	03/19/73-07/26/74	1	2	
TUZI0008	No	01092	ZINC, TOTAL (UG/L AS ZN)	02/13/73-02/13/73	0	1	
TUZI0010	No	01092	ZINC, TOTAL (UG/L AS ZN)	04/15/80-05/21/80	0	2	
TUZI0011	No	01092	ZINC, TOTAL (UG/L AS ZN)	02/12/80-05/21/80	0	4	
TUZI0012	No	01092	ZINC, TOTAL (UG/L AS ZN)	02/12/80-05/21/80	0	4	
TUZI0013	No	01092	ZINC, TOTAL (UG/L AS ZN)	07/28/87-07/28/87	0	1	
TUZI0018	No	01092	ZINC, TOTAL (UG/L AS ZN)	08/22/73-08/22/73	0	1	
TUZI0023	No	01092	ZINC, TOTAL (UG/L AS ZN)	12/06/88-12/06/88	0	1	
TUZI0026	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	12/06/88-12/06/88	0	1	
TUZI0027	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	12/06/88-12/06/88	0	1	
TUZI0029	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	12/06/88-12/06/88	0	1	
TUZI0032	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	06/21/77-06/21/77	0	1	
TUZI0033	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	12/06/88-12/06/88	0	1	
TUZI0034	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	08/04/93-08/04/93	0	1	
TUZI0036	No	01092	ZINC, TOTAL (UG/L AS ZN)	09/01/76-08/26/80	3	8	
TUZI0042	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	08/11/75-08/11/75	0	1	
TUZI0043	No	01092	ZINC, TOTAL (UG/L AS ZN)	01/30/73-01/30/73	0	1	
TUZI0046	No	01092	ZINC, TOTAL (UG/L AS ZN)	01/30/73-08/26/80	7	8	
TUZI0049	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	08/04/93-08/04/93	0	1	
TUZI0051	No	01092	ZINC, TOTAL (UG/L AS ZN)	11/15/88-01/07/93	4	31	
TUZI0059	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	08/04/93-08/04/93	0	1	
TUZI0065	No	01092	ZINC, TOTAL (UG/L AS ZN)	01/30/73-06/13/79	6	2	
TUZI0066	No	01092	ZINC, TOTAL (UG/L AS ZN)	02/12/80-04/29/83	3	14	
TUZI0067	No	01092	ZINC, TOTAL (UG/L AS ZN)	08/04/93-08/04/93	0	2	
TUZI0068	No	01092	ZINC, TOTAL (UG/L AS ZN)	02/12/80-12/09/80	0	12	
TUZI0069	No	01092	ZINC, TOTAL (UG/L AS ZN)	02/25/88-10/25/88	0	4	
TUZI0070	No	01092	ZINC, TOTAL (UG/L AS ZN)	02/12/80-12/09/80	0	12	
TUZI0071	No	01092	ZINC, TOTAL (UG/L AS ZN)	08/22/73-12/09/80	7	15	
TUZI0074	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	08/04/93-08/04/93	0	2	
TUZI0076	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	08/04/93-08/04/93	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation From 10/10/51 To 07/23/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
TUZI0077	No	01092	ZINC, TOTAL (UG/L AS ZN)	08/03/93-08/03/93	0	1	
TUZI0079	No	01092	ZINC, TOTAL (UG/L AS ZN)	08/04/93-08/04/93	0	2	
TUZI0082	No	01092	ZINC, TOTAL (UG/L AS ZN)	08/03/93-08/03/93	0	1	
TUZI0084	No	01092	ZINC, TOTAL (UG/L AS ZN)	08/03/93-08/03/93	0	1	
TUZI0087	No	01092	ZINC, TOTAL (UG/L AS ZN)	08/03/93-08/03/93	0	1	
TUZI0089	No	01092	ZINC, TOTAL (UG/L AS ZN)	08/03/93-08/03/93	0	1	
TUZI0096	No	01092	ZINC, TOTAL (UG/L AS ZN)	04/26/90-07/24/91	1	6	
TUZI0097	No	01092	ZINC, TOTAL (UG/L AS ZN)	02/26/75-12/29/76	1	2	
TUZI0098	No	01092	ZINC, TOTAL (UG/L AS ZN)	03/24/76-07/23/96	20	140	T,A,S
TUZI0100	No	01092	ZINC, TOTAL (UG/L AS ZN)	08/31/76-09/09/76	0	3	
TUZI0102	No	01092	ZINC, TOTAL (UG/L AS ZN)	01/30/73-09/09/76	3	5	
TUZI0106	No	01092	ZINC, TOTAL (UG/L AS ZN)	01/30/73-09/09/76	3	6	
TUZI0013	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	07/27/87-07/27/87	0	1	
TUZI0017	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0019	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0020	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0022	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0024	Yes	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0025	Yes	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0028	Yes	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0030	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0034	Yes	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0035	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0037	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0038	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0039	Yes	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0041	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0048	Yes	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0049	Yes	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0050	Yes	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0052	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0053	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0054	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0055	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0056	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0057	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0058	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0059	Yes	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0060	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0063	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0064	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0066	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/17/80-08/26/80	0	2	
TUZI0067	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0068	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/18/80-08/26/80	0	2	
TUZI0070	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/17/80-08/26/80	0	2	
TUZI0071	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/17/80-08/26/80	0	2	
TUZI0072	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0073	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0074	Yes	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0076	Yes	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0077	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0078	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0079	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0080	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0082	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0084	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0086	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0087	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0089	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0092	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0093	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0095	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0051	No	01095	ANTIMONY, DISSOLVED (UG/L AS SB)	11/15/88-01/07/93	4	12	
TUZI0098	No	01095	ANTIMONY, DISSOLVED (UG/L AS SB)	08/23/95-07/23/96	0	5	
TUZI0013	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	07/28/87-07/28/87	0	1	
TUZI0023	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	12/06/88-12/06/88	0	1	
TUZI0026	Yes	01097	ANTIMONY, TOTAL (UG/L AS SB)	12/06/88-12/06/88	0	1	
TUZI0027	Yes	01097	ANTIMONY, TOTAL (UG/L AS SB)	12/06/88-12/06/88	0	1	
TUZI0029	Yes	01097	ANTIMONY, TOTAL (UG/L AS SB)	12/06/88-12/06/88	0	1	
TUZI0033	Yes	01097	ANTIMONY, TOTAL (UG/L AS SB)	12/06/88-12/06/88	0	1	
TUZI0051	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	11/15/88-01/07/93	4	31	
TUZI0067	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	08/04/93-08/04/93	0	2	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

**Station/Parameter Period of Record Tabulation
From 10/10/51 To 07/23/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
TUZI0069	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	05/26/88-10/25/88	0	3	
TUZI0077	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	08/03/93-08/03/93	0	1	
TUZI0082	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	08/03/93-08/03/93	0	1	
TUZI0084	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	08/03/93-08/03/93	0	1	
TUZI0087	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	08/03/93-08/03/93	0	1	
TUZI0089	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	08/03/93-08/03/93	0	1	
TUZI0096	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	04/26/90-07/24/91	1	6	
TUZI0098	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	10/19/88-07/23/96	7	32	
TUZI0013	No	01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	07/27/87-07/27/87	0	1	
TUZI0017	No	01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0019	No	01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0020	No	01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0022	No	01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0024	Yes	01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0025	Yes	01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0028	Yes	01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0030	No	01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0034	Yes	01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0035	No	01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0037	No	01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0038	No	01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0039	Yes	01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0041	No	01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0048	Yes	01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0049	Yes	01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0053	No	01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0055	No	01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0064	No	01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0072	No	01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0073	No	01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0079	No	01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0080	No	01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0082	No	01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0086	No	01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0092	No	01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0093	No	01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0095	No	01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0013	No	01099	ANTIMONY, TISSUE, WET WEIGHT, MG/KG	07/27/87-07/27/87	0	1	
TUZI0023	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	12/06/88-12/06/88	0	1	
TUZI0026	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	12/06/88-12/06/88	0	1	
TUZI0027	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	12/06/88-12/06/88	0	1	
TUZI0029	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	12/06/88-12/06/88	0	1	
TUZI0033	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	12/06/88-12/06/88	0	1	
TUZI0034	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	08/04/93-08/04/93	0	1	
TUZI0049	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	08/04/93-08/04/93	0	1	
TUZI0059	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	08/04/93-08/04/93	0	1	
TUZI0067	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	08/04/93-08/04/93	0	2	
TUZI0074	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	08/04/93-08/04/93	0	2	
TUZI0076	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	08/04/93-08/04/93	0	1	
TUZI0077	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	08/03/93-08/03/93	0	1	
TUZI0079	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	08/04/93-08/04/93	0	2	
TUZI0082	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	08/03/93-08/03/93	0	1	
TUZI0084	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	08/03/93-08/03/93	0	1	
TUZI0087	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	08/03/93-08/03/93	0	1	
TUZI0089	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	08/03/93-08/03/93	0	1	
TUZI0001	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	07/07/78-07/07/78	0	1	
TUZI0007	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	07/08/78-07/08/78	0	1	
TUZI0061	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	02/25/81-02/25/81	0	1	
TUZI0075	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	07/08/78-07/08/78	0	1	
TUZI0090	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	02/25/81-02/25/81	0	1	
TUZI0105	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/23/78-03/23/78	0	1	
TUZI0110	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	07/21/78-07/21/78	0	1	
TUZI0017	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0019	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0020	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0022	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0024	Yes	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0025	Yes	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0028	Yes	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0030	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0034	Yes	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0035	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	07/01/92-07/01/92	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

**Station/Parameter Period of Record Tabulation
From 10/10/51 To 07/23/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
TUZI0037	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0038	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0039	Yes	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0041	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0048	Yes	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0049	Yes	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0050	Yes	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0052	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0053	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0054	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0055	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0056	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0057	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0058	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0059	Yes	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0060	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0063	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0064	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0067	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0072	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0073	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0074	Yes	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0076	Yes	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0077	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0078	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0079	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0080	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0082	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0084	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0086	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0087	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0089	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0092	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0093	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0095	No	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0001	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	07/07/78-07/07/78	0	1	
TUZI0002	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	07/21/93-07/21/93	0	1	
TUZI0006	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	07/20/93-07/20/93	0	1	
TUZI0007	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	07/08/78-07/08/78	0	1	
TUZI0014	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	07/26/93-07/26/93	0	1	
TUZI0061	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	02/25/81-02/25/81	0	1	
TUZI0075	Yes	01130	LITHIUM, DISSOLVED (UG/L AS LI)	07/08/78-07/08/78	0	1	
TUZI0090	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	02/25/81-02/25/81	0	1	
TUZI0105	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	03/23/78-03/23/78	0	1	
TUZI0110	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	07/21/78-07/21/78	0	1	
TUZI0001	No	01140	SILICON, DISSOLVED (UG/L AS SI)	07/07/78-07/07/78	0	1	
TUZI0007	No	01140	SILICON, DISSOLVED (UG/L AS SI)	07/08/78-07/08/78	0	1	
TUZI0075	Yes	01140	SILICON, DISSOLVED (UG/L AS SI)	07/08/78-07/08/78	0	1	
TUZI0105	No	01140	SILICON, DISSOLVED (UG/L AS SI)	03/23/78-03/23/78	0	1	
TUZI0110	No	01140	SILICON, DISSOLVED (UG/L AS SI)	07/21/78-07/21/78	0	1	
TUZI0002	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	07/21/93-07/21/93	0	1	
TUZI0006	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	07/20/93-07/20/93	0	1	
TUZI0010	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	04/15/80-04/15/80	0	1	
TUZI0011	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	04/15/80-04/15/80	0	1	
TUZI0012	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	04/15/80-04/15/80	0	1	
TUZI0014	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	07/26/93-07/26/93	0	1	
TUZI0036	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	04/16/80-04/16/80	0	1	
TUZI0046	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	04/16/80-04/16/80	0	1	
TUZI0051	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	11/15/88-01/07/93	4	12	
TUZI0061	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	02/25/81-02/25/81	0	1	
TUZI0066	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	04/15/80-05/20/80	0	2	
TUZI0068	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	04/15/80-05/20/80	0	2	
TUZI0070	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	04/15/80-05/20/80	0	2	
TUZI0071	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/18/80-08/05/80	0	4	
TUZI0090	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	02/25/81-02/25/81	0	1	
TUZI0098	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	10/22/86-07/23/96	9	95	
TUZI0005	No	01147	SELENIUM, TOTAL (UG/L AS SE)	03/19/73-07/26/74	1	2	
TUZI0008	No	01147	SELENIUM, TOTAL (UG/L AS SE)	02/13/73-02/13/73	0	1	
TUZI0010	No	01147	SELENIUM, TOTAL (UG/L AS SE)	04/15/80-05/21/80	0	2	
TUZI0011	No	01147	SELENIUM, TOTAL (UG/L AS SE)	02/12/80-05/21/80	0	4	
TUZI0012	No	01147	SELENIUM, TOTAL (UG/L AS SE)	02/12/80-05/21/80	0	4	
TUZI0013	No	01147	SELENIUM, TOTAL (UG/L AS SE)	07/28/87-07/28/87	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

**Station/Parameter Period of Record Tabulation
From 10/10/51 To 07/23/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
TUZI0023	No	01147	SELENIUM, TOTAL (UG/L AS SE)	12/06/88-12/06/88	0	1	
TUZI0026	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	12/06/88-12/06/88	0	1	
TUZI0027	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	12/06/88-12/06/88	0	1	
TUZI0029	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	12/06/88-12/06/88	0	1	
TUZI0032	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	06/21/77-06/21/77	0	1	
TUZI0033	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	12/06/88-12/06/88	0	1	
TUZI0036	No	01147	SELENIUM, TOTAL (UG/L AS SE)	09/01/76-08/26/80	3	8	
TUZI0046	No	01147	SELENIUM, TOTAL (UG/L AS SE)	02/12/80-08/26/80	0	5	
TUZI0051	No	01147	SELENIUM, TOTAL (UG/L AS SE)	11/15/88-01/07/93	4	31	
TUZI0065	No	01147	SELENIUM, TOTAL (UG/L AS SE)	06/13/79-06/13/79	0	1	
TUZI0066	No	01147	SELENIUM, TOTAL (UG/L AS SE)	02/12/80-04/29/83	3	14	
TUZI0067	No	01147	SELENIUM, TOTAL (UG/L AS SE)	08/04/93-08/04/93	0	2	
TUZI0068	No	01147	SELENIUM, TOTAL (UG/L AS SE)	02/12/80-12/09/80	0	12	
TUZI0069	No	01147	SELENIUM, TOTAL (UG/L AS SE)	02/25/88-10/25/88	0	4	
TUZI0070	No	01147	SELENIUM, TOTAL (UG/L AS SE)	02/12/80-12/09/80	0	12	
TUZI0071	No	01147	SELENIUM, TOTAL (UG/L AS SE)	02/12/80-12/09/80	0	14	
TUZI0077	No	01147	SELENIUM, TOTAL (UG/L AS SE)	08/03/93-08/03/93	0	1	
TUZI0079	No	01147	SELENIUM, TOTAL (UG/L AS SE)	08/04/93-08/04/93	0	2	
TUZI0082	No	01147	SELENIUM, TOTAL (UG/L AS SE)	08/03/93-08/03/93	0	1	
TUZI0084	No	01147	SELENIUM, TOTAL (UG/L AS SE)	08/03/93-08/03/93	0	1	
TUZI0087	No	01147	SELENIUM, TOTAL (UG/L AS SE)	08/03/93-08/03/93	0	1	
TUZI0089	No	01147	SELENIUM, TOTAL (UG/L AS SE)	08/03/93-08/03/93	0	1	
TUZI0096	No	01147	SELENIUM, TOTAL (UG/L AS SE)	04/26/90-07/24/91	1	6	
TUZI0097	No	01147	SELENIUM, TOTAL (UG/L AS SE)	02/26/75-03/25/75	0	2	
TUZI0098	No	01147	SELENIUM, TOTAL (UG/L AS SE)	03/24/76-07/23/96	20	161	T,A,S
TUZI0100	No	01147	SELENIUM, TOTAL (UG/L AS SE)	10/10/74-09/09/76	1	4	
TUZI0102	No	01147	SELENIUM, TOTAL (UG/L AS SE)	08/31/76-09/09/76	0	3	
TUZI0106	No	01147	SELENIUM, TOTAL (UG/L AS SE)	08/31/76-09/09/76	0	3	
TUZI0013	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	07/27/87-07/27/87	0	1	
TUZI0017	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0019	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0020	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0022	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0024	Yes	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0025	Yes	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0028	Yes	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0030	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0035	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0037	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0038	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0039	Yes	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0041	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0048	Yes	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0050	Yes	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0052	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0053	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0054	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0055	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0056	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0057	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0058	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0059	Yes	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0060	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0063	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0064	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0067	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0072	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0073	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0074	Yes	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0076	Yes	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0077	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0078	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0079	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0080	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0084	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0086	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0087	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0089	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0092	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0093	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0095	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0013	No	01149	SELENIUM, TOTAL IN FISH OR ANIMALS WET WGT MG/KG	07/27/87-07/27/87	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

**Station/Parameter Period of Record Tabulation
From 10/10/51 To 07/23/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
TUZI0001	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	07/07/78-07/07/78	0	1	
TUZI0007	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	07/08/78-07/08/78	0	1	
TUZI0075	Yes	01150	TITANIUM, DISSOLVED (UG/L AS TI)	07/08/78-07/08/78	0	1	
TUZI0105	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	03/23/78-03/23/78	0	1	
TUZI0110	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	07/21/78-07/21/78	0	1	
TUZI0017	No	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0019	No	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0020	No	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0022	No	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0024	Yes	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0025	Yes	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0028	Yes	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0030	No	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0035	No	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0037	No	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0038	No	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0039	Yes	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0041	No	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0048	Yes	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0049	Yes	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0050	Yes	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0052	No	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0053	No	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0054	No	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0055	No	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0056	No	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0057	No	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0058	No	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0059	Yes	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0060	No	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0063	No	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0064	No	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0067	No	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0072	No	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0073	No	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0074	Yes	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0076	Yes	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0077	No	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0078	No	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0079	No	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0080	No	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0082	No	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0084	No	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0086	No	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0087	No	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0089	No	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0092	No	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0093	No	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0095	No	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0017	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0019	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0020	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0022	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0024	Yes	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0025	Yes	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0028	Yes	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0030	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0034	Yes	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0035	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0037	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0038	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0039	Yes	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0041	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0048	Yes	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0049	Yes	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0050	Yes	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0052	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0053	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	07/01/92-07/01/92	0	1	
TUZI0054	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0055	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0056	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0057	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/04/93-08/04/93	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

**Station/Parameter Period of Record Tabulation
From 10/10/51 To 07/23/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
TUZI0058	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0059	Yes	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0060	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0063	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0064	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0066	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/17/80-08/26/80	0	2	
TUZI0067	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0068	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/18/80-08/26/80	0	2	
TUZI0070	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/17/80-08/26/80	0	2	
TUZI0071	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/17/80-08/26/80	0	2	
TUZI0072	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0073	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/30/92-06/30/92	0	2	
TUZI0074	Yes	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0076	Yes	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0077	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0078	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/04/93-08/04/93	0	1	
TUZI0079	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/04/93-08/04/93	0	2	
TUZI0080	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0082	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0084	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0086	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0087	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0089	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/03/93-08/03/93	0	1	
TUZI0092	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0093	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/29/92-06/29/92	0	1	
TUZI0095	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/30/92-06/30/92	0	1	
TUZI0017	No	04133	MERCURY, BED MAT,DRY WT,SEDIMENT,	06/30/92-06/30/92	0	2	
TUZI0019	No	04133	MERCURY, BED MAT,DRY WT,SEDIMENT,	07/01/92-07/01/92	0	1	
TUZI0020	No	04133	MERCURY, BED MAT,DRY WT,SEDIMENT,	06/30/92-06/30/92	0	1	
TUZI0022	No	04133	MERCURY, BED MAT,DRY WT,SEDIMENT,	06/30/92-06/30/92	0	1	
TUZI0024	Yes	04133	MERCURY, BED MAT,DRY WT,SEDIMENT,	06/29/92-06/29/92	0	1	
TUZI0025	Yes	04133	MERCURY, BED MAT,DRY WT,SEDIMENT,	06/30/92-06/30/92	0	2	
TUZI0028	Yes	04133	MERCURY, BED MAT,DRY WT,SEDIMENT,	06/30/92-06/30/92	0	1	
TUZI0030	No	04133	MERCURY, BED MAT,DRY WT,SEDIMENT,	06/29/92-06/29/92	0	1	
TUZI0034	Yes	04133	MERCURY, BED MAT,DRY WT,SEDIMENT,	08/04/93-08/04/93	0	1	
TUZI0035	No	04133	MERCURY, BED MAT,DRY WT,SEDIMENT,	07/01/92-07/01/92	0	1	
TUZI0037	No	04133	MERCURY, BED MAT,DRY WT,SEDIMENT,	07/01/92-07/01/92	0	1	
TUZI0038	No	04133	MERCURY, BED MAT,DRY WT,SEDIMENT,	06/30/92-06/30/92	0	1	
TUZI0039	Yes	04133	MERCURY, BED MAT,DRY WT,SEDIMENT,	06/29/92-06/29/92	0	1	
TUZI0041	No	04133	MERCURY, BED MAT,DRY WT,SEDIMENT,	06/30/92-06/30/92	0	1	
TUZI0048	Yes	04133	MERCURY, BED MAT,DRY WT,SEDIMENT,	06/29/92-06/29/92	0	1	
TUZI0049	Yes	04133	MERCURY, BED MAT,DRY WT,SEDIMENT,	08/04/93-08/04/93	0	1	
TUZI0050	Yes	04133	MERCURY, BED MAT,DRY WT,SEDIMENT,	08/04/93-08/04/93	0	1	
TUZI0052	No	04133	MERCURY, BED MAT,DRY WT,SEDIMENT,	08/04/93-08/04/93	0	2	
TUZI0053	No	04133	MERCURY, BED MAT,DRY WT,SEDIMENT,	07/01/92-07/01/92	0	1	
TUZI0054	No	04133	MERCURY, BED MAT,DRY WT,SEDIMENT,	08/04/93-08/04/93	0	1	
TUZI0055	No	04133	MERCURY, BED MAT,DRY WT,SEDIMENT,	06/29/92-06/29/92	0	1	
TUZI0056	No	04133	MERCURY, BED MAT,DRY WT,SEDIMENT,	08/04/93-08/04/93	0	1	
TUZI0057	No	04133	MERCURY, BED MAT,DRY WT,SEDIMENT,	08/04/93-08/04/93	0	1	
TUZI0058	No	04133	MERCURY, BED MAT,DRY WT,SEDIMENT,	08/04/93-08/04/93	0	1	
TUZI0059	Yes	04133	MERCURY, BED MAT,DRY WT,SEDIMENT,	08/04/93-08/04/93	0	1	
TUZI0060	No	04133	MERCURY, BED MAT,DRY WT,SEDIMENT,	08/04/93-08/04/93	0	1	
TUZI0063	No	04133	MERCURY, BED MAT,DRY WT,SEDIMENT,	08/04/93-08/04/93	0	1	
TUZI0064	No	04133	MERCURY, BED MAT,DRY WT,SEDIMENT,	06/29/92-06/29/92	0	1	
TUZI0067	No	04133	MERCURY, BED MAT,DRY WT,SEDIMENT,	08/04/93-08/04/93	0	1	
TUZI0072	No	04133	MERCURY, BED MAT,DRY WT,SEDIMENT,	06/29/92-06/29/92	0	1	
TUZI0073	No	04133	MERCURY, BED MAT,DRY WT,SEDIMENT,	06/30/92-06/30/92	0	2	
TUZI0074	Yes	04133	MERCURY, BED MAT,DRY WT,SEDIMENT,	08/04/93-08/04/93	0	2	
TUZI0076	Yes	04133	MERCURY, BED MAT,DRY WT,SEDIMENT,	08/04/93-08/04/93	0	1	
TUZI0077	No	04133	MERCURY, BED MAT,DRY WT,SEDIMENT,	08/03/93-08/03/93	0	1	
TUZI0078	No	04133	MERCURY, BED MAT,DRY WT,SEDIMENT,	08/04/93-08/04/93	0	1	
TUZI0079	No	04133	MERCURY, BED MAT,DRY WT,SEDIMENT,	08/04/93-08/04/93	0	2	
TUZI0080	No	04133	MERCURY, BED MAT,DRY WT,SEDIMENT,	06/30/92-06/30/92	0	1	
TUZI0082	No	04133	MERCURY, BED MAT,DRY WT,SEDIMENT,	08/03/93-08/03/93	0	1	
TUZI0084	No	04133	MERCURY, BED MAT,DRY WT,SEDIMENT,	08/03/93-08/03/93	0	1	
TUZI0086	No	04133	MERCURY, BED MAT,DRY WT,SEDIMENT,	06/29/92-06/29/92	0	1	
TUZI0087	No	04133	MERCURY, BED MAT,DRY WT,SEDIMENT,	08/03/93-08/03/93	0	1	
TUZI0089	No	04133	MERCURY, BED MAT,DRY WT,SEDIMENT,	08/03/93-08/03/93	0	1	
TUZI0092	No	04133	MERCURY, BED MAT,DRY WT,SEDIMENT,	06/29/92-06/29/92	0	1	
TUZI0093	No	04133	MERCURY, BED MAT,DRY WT,SEDIMENT,	06/29/92-06/29/92	0	1	
TUZI0095	No	04133	MERCURY, BED MAT,DRY WT,SEDIMENT,	06/30/92-06/30/92	0	1	
TUZI0098	No	07000	TRITIUM (1H3),TOTAL (PICOCURIES/LITER)	07/03/91-07/03/91	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

**Station/Parameter Period of Record Tabulation
From 10/10/51 To 07/23/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
TUZI0001	No	22703	URANIUM, NATURAL, DISSOLVED	07/07/78-07/07/78	0	1	
TUZI0007	No	22703	URANIUM, NATURAL, DISSOLVED	07/08/78-07/08/78	0	1	
TUZI0105	No	22703	URANIUM, NATURAL, DISSOLVED	03/23/78-03/23/78	0	1	
TUZI0110	No	22703	URANIUM, NATURAL, DISSOLVED	07/21/78-07/21/78	0	1	
TUZI0098	No	31501	COLIFORM,TOT, MEMBRANE FILTER,IMMED.M-ENDO MED,35C	09/30/76-09/30/76	0	1	
TUZI0010	No	31613	FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24HR	04/15/80-12/10/80	0	11	
TUZI0011	No	31613	FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24HR	04/15/80-12/10/80	0	11	
TUZI0012	No	31613	FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24HR	04/15/80-12/10/80	0	11	
TUZI0036	No	31613	FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24HR	05/20/80-12/09/80	0	10	
TUZI0046	No	31613	FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24HR	04/16/80-12/09/80	0	9	
TUZI0051	No	31613	FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24HR	06/13/89-11/05/92	3	7	
TUZI0066	No	31613	FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24HR	04/15/80-12/09/80	0	11	
TUZI0068	No	31613	FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24HR	04/15/80-12/09/80	0	10	
TUZI0070	No	31613	FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24HR	05/20/80-12/09/80	0	9	
TUZI0071	No	31613	FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24HR	04/15/80-12/09/80	0	11	
TUZI0096	No	31613	FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24HR	01/29/91-05/07/91	0	2	
TUZI0010	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/15/80-04/15/80	0	1	
TUZI0011	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/15/80-04/15/80	0	1	
TUZI0012	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/15/80-04/15/80	0	1	
TUZI0018	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/31/73-08/23/73	0	5	
TUZI0036	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/16/80-04/16/80	0	1	
TUZI0043	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/31/73-01/31/73	0	1	
TUZI0046	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/29/73-05/20/80	7	6	
TUZI0065	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/31/73-01/31/73	0	1	
TUZI0094	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/31/73-01/31/73	0	1	
TUZI0098	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/24/76-09/30/76	0	6	
TUZI0102	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/29/73-01/29/73	0	1	
TUZI0106	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/29/73-08/23/73	0	3	
TUZI0032	Yes	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	06/21/77-06/21/77	0	1	
TUZI0098	No	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	11/10/76-11/21/95	19	160	T,A,S
TUZI0098	No	31633	E.COLI,THERMOTOL,MF,M-TEC,IN SITU UREASE #/100ML	10/27/94-08/23/95	0	5	
TUZI0010	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	04/15/80-12/10/80	0	11	
TUZI0011	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	05/21/80-12/10/80	0	10	
TUZI0012	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	04/15/80-12/10/80	0	11	
TUZI0032	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/21/77-06/21/77	0	1	
TUZI0036	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	04/16/80-12/09/80	0	11	
TUZI0046	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	04/16/80-12/09/80	0	11	
TUZI0051	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/13/89-07/21/92	3	6	
TUZI0066	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	04/15/80-12/09/80	0	11	
TUZI0068	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	04/15/80-12/09/80	0	10	
TUZI0070	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	05/20/80-12/09/80	0	10	
TUZI0071	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	04/15/80-12/09/80	0	11	
TUZI0096	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	01/29/91-05/07/91	0	2	
TUZI0098	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/20/77-11/21/95	18	96	S
TUZI0032	Yes	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	06/21/77-06/21/77	0	1	
TUZI0098	No	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	03/24/76-10/05/83	7	69	
TUZI0013	No	34200	ACENAPHTHYLENE TOTWUG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	34200	ACENAPHTHYLENE TOTWUG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	34203	ACENAPHTHYLENE DRY WGTBOTUG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34204	ACENAPHTHYLENE WET WGTTISM/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	34204	ACENAPHTHYLENE WET WGTTISM/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34205	ACENAPHTHENE TOTWUG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	34205	ACENAPHTHENE TOTWUG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	34208	ACENAPHTHENE DRY WGTBOTUG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34209	ACENAPHTHENE WET WGTTISM/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	34209	ACENAPHTHENE WET WGTTISM/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34223	ANTHRACENE DRY WGTBOTUG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34224	ANTHRACENE WET WGTTISM/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	34224	ANTHRACENE WET WGTTISM/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34230	BENZO(B)FLUORANTHENE, WHOLE WATER,UG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	34230	BENZO(B)FLUORANTHENE, WHOLE WATER,UG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	34233	BENZO(B)FLUORANTHENE, SEDIMENTS, DRY WGT,UG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34234	BENZO(B)FLUORANTHENE, TISSUE, WET WGT,MG/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	34234	BENZO(B)FLUORANTHENE, TISSUE, WET WGT,MG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34242	BENZO(K)FLUORANTHENE, TOTAL, WATER UG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	34242	BENZO(K)FLUORANTHENE, TOTAL, WATER UG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	34245	BENZO(K)FLUORANTHENE, DRY WT, SEDIMENT UG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34246	BENZO(K)FLUORANTHENE, WET WT, TISSUE MG/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	34246	BENZO(K)FLUORANTHENE, WET WT, TISSUE MG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34247	BENZO-A-PYRENE TOTWUG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	34247	BENZO-A-PYRENE TOTWUG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	34250	BENZO-A-PYRENE DRY WGTBOTUG/KG	07/27/87-07/27/87	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

**Station/Parameter Period of Record Tabulation
From 10/10/51 To 07/23/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
TUZI0013	No	34251	BENZO-A-PYRENE WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	34251	BENZO-A-PYRENE WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34252	BERYLLIUM WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34257	B-BHC-BETA DRY WGT BOTUG/KG	07/28/87-07/28/87	0	1	
TUZI0013	No	34258	B-BHC-BETA WET WGT TISM/G/KG	07/28/87-07/28/87	0	1	
TUZI0013	No	34259	DELTA BENZENE HEXACHLORIDE TOTWUG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	34262	DELTA BENZENE HEXACHLORIDE DRY WGT BOTUG/KG	07/28/87-07/28/87	0	1	
TUZI0013	No	34263	DELTA BENZENE HEXACHLORIDE WET WGT TISM/G/KG	07/28/87-07/28/87	0	1	
TUZI0013	No	34273	BIS (2-CHLOROETHYL) ETHER TOTWUG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	34273	BIS (2-CHLOROETHYL) ETHER TOTWUG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	34276	BIS (2-CHLOROETHYL) ETHER DRY WGT BOTUG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34277	BIS (2-CHLOROETHYL) ETHER WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	34277	BIS (2-CHLOROETHYL) ETHER WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34278	BIS (2-CHLOROETHOXY) METHANE TOTWUG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	34278	BIS (2-CHLOROETHOXY) METHANE TOTWUG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	34281	BIS (2-CHLOROETHOXY) METHANE DRY WGT BOTUG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34282	BIS (2-CHLOROETHOXY) METHANE WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	34282	BIS (2-CHLOROETHOXY) METHANE WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34286	BIS (2-CHLOROISOPROPYL) ETHER DRY WGT BOTUG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34287	BIS (2-CHLOROISOPROPYL) ETHER WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	34287	BIS (2-CHLOROISOPROPYL) ETHER WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34292	N-BUTYL BENZYL PHTHALATE,WHOLE WATER,UG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	34292	N-BUTYL BENZYL PHTHALATE,WHOLE WATER,UG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	34293	N-BUTYL BENZYL PHTHALATE,DISSOLVED,UG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	34293	N-BUTYL BENZYL PHTHALATE,DISSOLVED,UG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	34295	N-BUTYL BENZYL PHTHALATE,SEDIMENTS,DRY WGT,UG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34296	N-BUTYL BENZYL PHTHALATE,TISSUE,WET WGT,MG/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	34296	N-BUTYL BENZYL PHTHALATE,TISSUE,WET WGT,MG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34320	CHRYSENE TOTWUG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	34320	CHRYSENE TOTWUG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	34323	CHRYSENE DRY WGT BOTUG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34324	CHRYSENE WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	34324	CHRYSENE WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34336	DIETHYL PHTHALATE TOTWUG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	34336	DIETHYL PHTHALATE TOTWUG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	34339	DIETHYL PHTHALATE DRY WGT BOTUG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34340	DIETHYL PHTHALATE WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	34340	DIETHYL PHTHALATE WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34341	DIMETHYL PHTHALATE TOTWUG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	34341	DIMETHYL PHTHALATE TOTWUG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	34344	DIMETHYL PHTHALATE DRY WGT BOTUG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34345	DIMETHYL PHTHALATE WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	34345	DIMETHYL PHTHALATE WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34351	ENDOSULFAN SULFATE TOTWUG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	34354	ENDOSULFAN SULFATE DRY WGT BOTUG/KG	07/28/87-07/28/87	0	1	
TUZI0013	No	34355	ENDOSULFAN SULFATE WET WGT TISM/G/KG	07/28/87-07/28/87	0	1	
TUZI0013	No	34356	ENDOSULFAN, BETA TOTWUG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	34359	ENDOSULFAN, BETA DRY WGT BOTUG/KG	07/28/87-07/28/87	0	1	
TUZI0013	No	34361	ENDOSULFAN, ALPHA TOTWUG/L	07/27/87-07/28/87	0	2	
TUZI0099	No	34361	ENDOSULFAN, ALPHA TOTWUG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	34364	ENDOSULFAN, ALPHA DRY WGT BOTUG/KG	07/28/87-07/28/87	0	1	
TUZI0013	No	34365	ENDOSULFAN, ALPHA WET WGT TISM/G/KG	07/28/87-07/28/87	0	1	
TUZI0013	No	34376	FLUORANTHENE TOTWUG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	34376	FLUORANTHENE TOTWUG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	34379	FLUORANTHENE DRY WGT BOTUG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34380	FLUORANTHENE WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	34380	FLUORANTHENE WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34384	FLUORENE DRY WGT BOTUG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34385	FLUORENE WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	34385	FLUORENE WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34386	HEXACHLOROCYCLOPENTADIENE TOTWUG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	34386	HEXACHLOROCYCLOPENTADIENE TOTWUG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	34389	HEXACHLOROCYCLOPENTADIENE DRY WGT BOTUG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34390	HEXACHLOROCYCLOPENTADIENE WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	34390	HEXACHLOROCYCLOPENTADIENE WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34391	HEXACHLOROBUTADIENE TOTWUG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	34391	HEXACHLOROBUTADIENE TOTWUG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	34395	HEXACHLOROBUTADIENE WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	34395	HEXACHLOROBUTADIENE WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34396	HEXACHLOROETHANE TOTWUG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	34396	HEXACHLOROETHANE TOTWUG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	34399	HEXACHLOROETHANE DRY WGT BOTUG/KG	07/27/87-07/27/87	0	1	

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Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
TUZI0013	No	34400	HEXACHLOROETHANE WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	34400	HEXACHLOROETHANE WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34403	INDENO (1,2,3-CD) PYRENE TOTWUG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	34403	INDENO (1,2,3-CD) PYRENE TOTWUG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	34406	INDENO (1,2,3-CD) PYRENE DRY WGT BOTUG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34407	INDENO (1,2,3-CD) PYRENE WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	34407	INDENO (1,2,3-CD) PYRENE WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34408	ISOPHORONE TOTWUG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	34408	ISOPHORONE TOTWUG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	34411	ISOPHORONE DRY WGT BOTUG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34412	ISOPHORONE WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	34412	ISOPHORONE WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34420	METHYL CHLORIDE SUSPUG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	34420	METHYL CHLORIDE SUSPUG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	34428	N-NITROSODI-N-PROPYLAMINE TOTWUG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	34428	N-NITROSODI-N-PROPYLAMINE TOTWUG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	34431	N-NITROSODI-N-PROPYLAMINE DRY WGT BOTUG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34432	N-NITROSODI-N-PROPYLAMINE WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	34432	N-NITROSODI-N-PROPYLAMINE WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34433	N-NITROSODIPHENYLAMINE TOTWUG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	34433	N-NITROSODIPHENYLAMINE TOTWUG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	34436	N-NITROSODIPHENYLAMINE DRY WGT BOTUG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34437	N-NITROSODIPHENYLAMINE WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	34437	N-NITROSODIPHENYLAMINE WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34445	NAPHTHALENE DRY WGT BOTUG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34446	NAPHTHALENE WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	34446	NAPHTHALENE WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34447	NITROBENZENE TOTWUG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	34447	NITROBENZENE TOTWUG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	34450	NITROBENZENE DRY WGT BOTUG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34451	NITROBENZENE WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	34451	NITROBENZENE WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34461	PHENANTHRENE TOTWUG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	34461	PHENANTHRENE TOTWUG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	34464	PHENANTHRENE DRY WGT BOTUG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34465	PHENANTHRENE WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	34465	PHENANTHRENE WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34468	PHENOL WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	34468	PHENOL WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34469	PYRENE TOTWUG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	34469	PYRENE TOTWUG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	34472	PYRENE DRY WGT BOTUG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34473	PYRENE WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	34473	PYRENE WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34474	SILVER WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34480	THALLIUM DRY WGT BOTMG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34521	BENZO(GH)PERYLENE1,12-BENZOPERYLENE TOTWUG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	34521	BENZO(GH)PERYLENE1,12-BENZOPERYLENE TOTWUG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	34524	BENZO(GH)PERYLENE1,12-BENZOPERYLENDRY WGT BOTUG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34525	BENZO(GH)PERYLENE1,12-BENZOPERYLENWET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	34525	BENZO(GH)PERYLENE1,12-BENZOPERYLENWET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34526	BENZO(A)ANTHRACENE1,2-BENZANTHRACENE TOTWUG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	34526	BENZO(A)ANTHRACENE1,2-BENZANTHRACENE TOTWUG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	34529	BENZO(A)ANTHRACENE1,2-BENZANTHRACENDRY WGT BOTUG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34530	BENZO(A)ANTHRACENE1,2-BENZANTHRACENWET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	34530	BENZO(A)ANTHRACENE1,2-BENZANTHRACENWET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34536	1,2-DICHLOROBENZENE TOTWUG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	34536	1,2-DICHLOROBENZENE TOTWUG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	34539	1,2-DICHLOROBENZENE DRY WGT BOTUG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34540	1,2-DICHLOROBENZENE WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	34540	1,2-DICHLOROBENZENE WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34551	1,2,4-TRICHLOROBENZENE TOTWUG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	34551	1,2,4-TRICHLOROBENZENE TOTWUG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	34554	1,2,4-TRICHLOROBENZENE DRY WGT BOTUG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34555	1,2,4-TRICHLOROBENZENE WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	34555	1,2,4-TRICHLOROBENZENE WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34556	1,2,5,6-DIBENZANTHRACENE TOTWUG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	34556	1,2,5,6-DIBENZANTHRACENE TOTWUG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	34559	1,2,5,6-DIBENZANTHRACENE DRY WGT BOTUG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34566	1,3-DICHLOROBENZENE TOTWUG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	34566	1,3-DICHLOROBENZENE TOTWUG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	34569	1,3-DICHLOROBENZENE DRY WGT BOTUG/KG	07/27/87-07/27/87	0	1	

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Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
TUZI0013	No	34570	1,3-DICHLOROBENZENE WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	34570	1,3-DICHLOROBENZENE WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34571	1,4-DICHLOROBENZENE TOTWUG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	34571	1,4-DICHLOROBENZENE TOTWUG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	34574	1,4-DICHLOROBENZENE DRY WGT BOTUG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34575	1,4-DICHLOROBENZENE WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	34575	1,4-DICHLOROBENZENE WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34581	2-CHLORONAPHTHALENE TOTWUG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	34581	2-CHLORONAPHTHALENE TOTWUG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	34584	2-CHLORONAPHTHALENE DRY WGT BOTUG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34585	2-CHLORONAPHTHALENE WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	34585	2-CHLORONAPHTHALENE WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34586	2-CHLOROPHENOL TOTWUG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	34586	2-CHLOROPHENOL TOTWUG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	34589	2-CHLOROPHENOL DRY WGT BOTUG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34590	2-CHLOROPHENOL WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	34590	2-CHLOROPHENOL WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34591	2-NITROPHENOL TOTWUG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	34591	2-NITROPHENOL TOTWUG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	34594	2-NITROPHENOL DRY WGT BOTUG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34595	2-NITROPHENOL WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	34595	2-NITROPHENOL WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34596	DI-N-OCTYL PHTHALATE TOTWUG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	34596	DI-N-OCTYL PHTHALATE TOTWUG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	34599	DI-N-OCTYL PHTHALATE DRY WGT BOTUG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34600	DI-N-OCTYL PHTHALATE WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	34600	DI-N-OCTYL PHTHALATE WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34601	2,4-DICHLOROPHENOL TOTWUG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	34601	2,4-DICHLOROPHENOL TOTWUG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	34604	2,4-DICHLOROPHENOL DRY WGT BOTUG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34605	2,4-DICHLOROPHENOL WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	34605	2,4-DICHLOROPHENOL WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34606	2,4-DIMETHYLPHENOL TOTWUG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	34606	2,4-DIMETHYLPHENOL TOTWUG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	34609	2,4-DIMETHYLPHENOL DRY WGT BOTUG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34610	2,4-DIMETHYLPHENOL WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	34610	2,4-DIMETHYLPHENOL WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34611	2,4-DINITROTOLUENE TOTWUG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	34611	2,4-DINITROTOLUENE TOTWUG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	34614	2,4-DINITROTOLUENE DRY WGT BOTUG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34615	2,4-DINITROTOLUENE WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	34615	2,4-DINITROTOLUENE WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34616	2,4-DINITROPHENOL TOTWUG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	34616	2,4-DINITROPHENOL TOTWUG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	34619	2,4-DINITROPHENOL DRY WGT BOTUG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34620	2,4-DINITROPHENOL WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	34620	2,4-DINITROPHENOL WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34621	2,4,6-TRICHLOROPHENOL TOTWUG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	34621	2,4,6-TRICHLOROPHENOL TOTWUG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	34624	2,4,6-TRICHLOROPHENOL DRY WGT BOTUG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34625	2,4,6-TRICHLOROPHENOL WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	34625	2,4,6-TRICHLOROPHENOL WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34626	2,6-DINITROTOLUENE TOTWUG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	34626	2,6-DINITROTOLUENE TOTWUG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	34629	2,6-DINITROTOLUENE DRY WGT BOTUG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34630	2,6-DINITROTOLUENE WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	34630	2,6-DINITROTOLUENE WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34631	3,3'-DICHLOROBENZIDINE TOTWUG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	34631	3,3'-DICHLOROBENZIDINE TOTWUG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	34634	3,3'-DICHLOROBENZIDINE DRY WGT BOTUG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34635	3,3'-DICHLOROBENZIDINE WET WGT TISM/G/KG	07/27/87-07/28/87	0	2	
TUZI0099	No	34635	3,3'-DICHLOROBENZIDINE WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34636	4-BROMOPHENYL PHENYL ETHER TOTWUG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	34636	4-BROMOPHENYL PHENYL ETHER TOTWUG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	34639	4-BROMOPHENYL PHENYL ETHER DRY WGT BOTUG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34640	4-BROMOPHENYL PHENYL ETHER WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	34640	4-BROMOPHENYL PHENYL ETHER WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34641	4-CHLOROPHENYL PHENYL ETHER TOTWUG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	34641	4-CHLOROPHENYL PHENYL ETHER TOTWUG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	34644	4-CHLOROPHENYL PHENYL ETHER DRY WGT BOTUG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34645	4-CHLOROPHENYL PHENYL ETHER WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	34645	4-CHLOROPHENYL PHENYL ETHER WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

**Station/Parameter Period of Record Tabulation
From 10/10/51 To 07/23/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
TUZI0013	No	34646	4-NITROPHENOL TOTWUG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	34646	4-NITROPHENOL TOTWUG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	34649	4-NITROPHENOL DRY WGTBOTUG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34650	4-NITROPHENOL WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	34650	4-NITROPHENOL WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34657	DNOC (4,6-DINITRO-ORTHO-CRESOL) TOTWUG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	34657	DNOC (4,6-DINITRO-ORTHO-CRESOL) TOTWUG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	34661	DNOC (4,6-DINITRO-ORTHO-CRESOL) WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	34661	DNOC (4,6-DINITRO-ORTHO-CRESOL) WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34664	PCB - 1221 WET WGT TISM/G/KG	07/28/87-07/28/87	0	1	
TUZI0013	No	34667	PCB - 1232 WET WGT TISM/G/KG	07/28/87-07/28/87	0	2	
TUZI0013	No	34669	PCB - 1248 WET WGT TISM/G/KG	07/28/87-07/28/87	0	1	
TUZI0013	No	34670	PCB - 1260 WET WGT TISM/G/KG	07/28/87-07/28/87	0	1	
TUZI0013	No	34671	PCB - 1016 TOTWUG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	34674	PCB - 1016 WET WGT TISM/G/KG	07/28/87-07/28/87	0	1	
TUZI0013	No	34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	07/28/87-07/28/87	0	1	
TUZI0013	No	34682	CHLORDANE(TECH MIX & METABS), TISSUE WET WGT, MG/KG	07/28/87-07/28/87	0	1	
TUZI0013	No	34683	DI-N-BUTYL PHTHALATE, TISSUE, WET WGT WET WGT	07/27/87-07/27/87	0	1	
TUZI0099	No	34683	DI-N-BUTYL PHTHALATE, TISSUE, WET WGT WET WGT	07/27/87-07/27/87	0	1	
TUZI0013	No	34685	ENDRIN WET WGT TISM/G/KG	07/28/87-07/28/87	0	1	
TUZI0013	No	34686	HEPTACHLOR EPOXIDE WET WGT TISM/G/KG	07/28/87-07/28/87	0	1	
TUZI0013	No	34687	HEPTACHLOR WET WGT TISM/G/KG	07/28/87-07/28/87	0	1	
TUZI0013	No	34688	HEXACHLOROBENZENE WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	34688	HEXACHLOROBENZENE WET WGT TISM/G/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	34689	PCB - 1242 WET WGT TISM/G/KG	07/28/87-07/28/87	0	1	
TUZI0013	No	34690	PCB - 1254 WET WGT TISM/G/KG	07/28/87-07/28/87	0	1	
TUZI0013	No	34691	TOXAPHENE WET WGT TISM/G/KG	07/28/87-07/28/87	0	1	
TUZI0013	No	34694	PHENOL(C6H5OH)-SINGLE COMPOUND TOTWUG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	34694	PHENOL(C6H5OH)-SINGLE COMPOUND TOTWUG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	34695	PHENOL(C6H5OH)-SINGLE COMPOUND WGT TUG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	39032	PCP (PENTACHLOROPHENOL) WHOLE WATER SAMPLE UG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	39032	PCP (PENTACHLOROPHENOL) WHOLE WATER SAMPLE UG/L	07/28/87-07/28/87	0	1	
TUZI0098	No	39036	ALKALINITY, FILTERED SAMPLE AS CaCO3 MG/L	10/19/88-06/25/96	7	77	
TUZI0101	No	39036	ALKALINITY, FILTERED SAMPLE AS CaCO3 MG/L	07/02/91-07/02/91	0	1	
TUZI0104	No	39036	ALKALINITY, FILTERED SAMPLE AS CaCO3 MG/L	07/02/91-07/02/91	0	1	
TUZI0108	No	39036	ALKALINITY, FILTERED SAMPLE AS CaCO3 MG/L	07/04/91-07/04/91	0	1	
TUZI0013	No	39060	PCP (PENTACHLOROPHENOL) IN TISSUE WET WGT UG/G	07/27/87-07/27/87	0	1	
TUZI0099	No	39060	PCP (PENTACHLOROPHENOL) IN TISSUE WET WGT UG/G	07/27/87-07/27/87	0	1	
TUZI0013	No	39061	PCP (PENTACHLOROPHENOL) IN BOT DEPOS DRY SOL UG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	39064	CHLORDANE-CIS ISOMER BOTTOM DEPOS (UG/KG DRY SOL	07/28/87-07/28/87	0	1	
TUZI0013	No	39074	BHC-ALPHA ISOMER, TISSUE UG/G WET WGT	07/28/87-07/28/87	0	1	
TUZI0013	No	39076	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	07/28/87-07/28/87	0	1	
TUZI0098	No	39086	ALKALINITY, WATER, DISS, INCR TIT, FIELD, AS CaCO3, MG/L	10/22/86-07/23/96	9	102	
TUZI0101	No	39086	ALKALINITY, WATER, DISS, INCR TIT, FIELD, AS CaCO3, MG/L	07/02/91-07/02/91	0	1	
TUZI0104	No	39086	ALKALINITY, WATER, DISS, INCR TIT, FIELD, AS CaCO3, MG/L	07/02/91-07/02/91	0	1	
TUZI0108	No	39086	ALKALINITY, WATER, DISS, INCR TIT, FIELD, AS CaCO3, MG/L	07/04/91-07/04/91	0	1	
TUZI0013	No	39099	BIS(2-ETHYLHEXYL)PHTHALATE, TISSUE, WET WGT, MG/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	39099	BIS(2-ETHYLHEXYL)PHTHALATE, TISSUE, WET WGT, MG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	39100	BIS(2-ETHYLHEXYL) PHTHALATE, WHOLE WATER, UG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	39100	BIS(2-ETHYLHEXYL) PHTHALATE, WHOLE WATER, UG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	39102	BIS(2-ETHYLHEXYL) PHTHALATE, SEDIMENT, DRY WGT, UG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	39110	DI-N-BUTYL PHTHALATE, WHOLE WATER, UG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	39110	DI-N-BUTYL PHTHALATE, WHOLE WATER, UG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	39112	DI-N-BUTYL PHTHALATE, SEDIMENTS, DRY WGT, UG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	39250	NAPHTHALENES, POLYCHLORINATED (UG/L)	07/27/87-07/27/87	0	1	
TUZI0099	No	39250	NAPHTHALENES, POLYCHLORINATED (UG/L)	07/28/87-07/28/87	0	1	
TUZI0013	No	39300	P,P' DDT IN WHOLE WATER SAMPLE (UG/L)	07/28/87-07/28/87	0	1	
TUZI0013	No	39301	P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/28/87-07/28/87	0	1	
TUZI0013	No	39302	P P DDT IN TISSUE WET WGT (UG/G)	07/28/87-07/28/87	0	1	
TUZI0013	No	39310	P,P' DDD IN WHOLE WATER SAMPLE (UG/L)	07/28/87-07/28/87	0	1	
TUZI0013	No	39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/28/87-07/28/87	0	1	
TUZI0013	No	39320	P,P' DDE IN WHOLE WATER SAMPLE (UG/L)	07/28/87-07/28/87	0	1	
TUZI0013	No	39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/28/87-07/28/87	0	1	
TUZI0013	No	39322	P,P'-DDE IN TISSUE WET WGT MG/KG	07/28/87-07/28/87	0	1	
TUZI0013	No	39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	07/28/87-07/28/87	0	1	
TUZI0013	No	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/28/87-07/28/87	0	1	
TUZI0013	No	39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	07/28/87-07/28/87	0	1	
TUZI0013	No	39338	BETA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	07/28/87-07/28/87	0	1	
TUZI0013	No	39340	GAMMA-BHC(LINDANE), WHOLE WATER, UG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	39348	CHLORDANE, ALPHA, IN WHOLE WATER SAMPLE (UG/L)	07/28/87-07/28/87	0	1	
TUZI0013	No	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	07/28/87-07/28/87	0	1	
TUZI0013	No	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	07/28/87-07/28/87	0	1	

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Station/Parameter Period of Record Tabulation **From 10/10/51 To 07/23/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
TUZI0013	No	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	07/28/87-07/28/87	0	1	
TUZI0013	No	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/28/87-07/28/87	0	1	
TUZI0013	No	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	07/28/87-07/28/87	0	1	
TUZI0013	No	39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	07/28/87-07/28/87	0	1	
TUZI0013	No	39404	DIELDRIN IN TISSUE WET WGT (UG/G)	07/28/87-07/28/87	0	1	
TUZI0013	No	39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	07/28/87-07/28/87	0	1	
TUZI0013	No	39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	07/28/87-07/28/87	0	1	
TUZI0013	No	39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	07/28/87-07/28/87	0	1	
TUZI0013	No	39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	07/28/87-07/28/87	0	1	
TUZI0013	No	39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	07/28/87-07/28/87	0	1	
TUZI0013	No	39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	07/28/87-07/28/87	0	1	
TUZI0013	No	39488	PCB - 1221 IN THE WHOLE WATER SAMPLE UG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	39491	PCB - 1221 BOT. DEP.,PCB SERIES DRY SOL UG/KG	07/28/87-07/28/87	0	1	
TUZI0013	No	39495	PCB - 1232 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	07/28/87-07/28/87	0	1	
TUZI0013	No	39496	PCB - 1242 PCB SERIES WHOLE WATER SAMPLE UG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	39499	PCB - 1242 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	07/28/87-07/28/87	0	1	
TUZI0013	No	39500	PCB - 1248 PCB SERIES WHOLE WATER SAMPLE UG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	39503	PCB - 1248 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	07/28/87-07/28/87	0	1	
TUZI0013	No	39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE UG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	39507	PCB - 1254 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	07/28/87-07/28/87	0	1	
TUZI0013	No	39508	PCB - 1260 PCB SERIES WHOLE WATER SAMPLE UG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	39511	PCB - 1260 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	07/28/87-07/28/87	0	1	
TUZI0013	No	39514	PCB - 1016 IN BOTTOM SEDIMENTS DRY WT UG/KG	07/28/87-07/28/87	0	1	
TUZI0013	No	39700	HEXACHLORO BENZENE IN WHOLE WATER SAMPLE (UG/L)	07/27/87-07/27/87	0	1	
TUZI0099	No	39700	HEXACHLORO BENZENE IN WHOLE WATER SAMPLE (UG/L)	07/28/87-07/28/87	0	1	
TUZI0013	No	39701	HEXACHLORO BENZENE IN BOT DEPOS (UG/KG DRY SOLIDS)	07/27/87-07/27/87	0	1	
TUZI0013	No	39705	HEXACHLOROBUTADIENE BOT. DEPOS.(UG/KG DRY WGT)	07/27/87-07/27/87	0	1	
TUZI0013	No	39785	GAMMA-BHC(LINDANE),TISSUE,WET WEIGHT,MG/KG	07/28/87-07/28/87	0	1	
TUZI0013	No	39810	CHLORDANE,GAMMA,IN WHOLE WATER SAMPLE (UG/L)	07/28/87-07/28/87	0	1	
TUZI0013	No	39811	CHLORDANE,GAMMA,IN BOTTOM DEPOS(UG/KG DRY SOLIDS)	07/28/87-07/28/87	0	1	
TUZI0013	No	45145	DIMETHYLNAPHTHALENE IN SEDIMENT UG/KG	07/27/87-07/27/87	0	1	
TUZI0001	No	50760	CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/07/78-07/07/78	0	1	
TUZI0007	No	50760	CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/08/78-07/08/78	0	1	
TUZI0075	Yes	50760	CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/08/78-07/08/78	0	1	
TUZI0105	No	50760	CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	03/23/78-03/23/78	0	1	
TUZI0110	No	50760	CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/21/78-07/21/78	0	1	
TUZI0098	No	60050	ALGAE, TOTAL (CELLS/ML)	05/09/79-05/09/79	0	1	
TUZI0006	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/08/77-07/08/77	0	1	
TUZI0009	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/28/90-09/12/91	1	16	
TUZI0014	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/30/73-11/30/76	3	2	
TUZI0023	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	12/06/88-12/06/88	0	1	
TUZI0026	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	12/06/88-12/06/88	0	1	
TUZI0027	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	12/06/88-12/06/88	0	1	
TUZI0029	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	12/06/88-12/06/88	0	1	
TUZI0031	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	06/12/79-06/12/79	0	1	
TUZI0032	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	06/21/77-06/21/77	0	1	
TUZI0033	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	12/06/88-12/06/88	0	1	
TUZI0042	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/04/63-08/11/75	12	5	
TUZI0047	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	06/12/79-06/12/79	0	1	
TUZI0051	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/15/88-01/07/93	4	31	
TUZI0069	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	02/25/88-10/25/88	0	4	
TUZI0096	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/26/90-07/24/91	1	6	
TUZI0098	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/24/76-07/23/96	20	163	T,A,S
TUZI0103	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/26/77-04/26/77	0	1	
TUZI0002	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	04/04/78-04/04/78	0	1	
TUZI0004	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	12/20/77-12/20/77	0	1	
TUZI0005	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/24/58-07/26/74	15	3	
TUZI0008	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	02/13/73-02/13/73	0	1	
TUZI0014	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/09/58-02/09/78	19	2	
TUZI0015	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	02/08/73-02/08/73	0	1	
TUZI0016	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/15/58-10/15/58	0	1	
TUZI0021	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/04/78-05/04/78	0	1	
TUZI0031	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/12/79-06/12/79	0	1	
TUZI0032	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/21/77-06/21/77	0	1	
TUZI0040	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/29/58-10/29/58	0	1	
TUZI0042	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/18/59-04/06/66	6	5	
TUZI0044	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	02/08/73-02/08/73	0	1	
TUZI0046	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	01/26/73-02/06/73	0	3	
TUZI0047	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/12/79-06/12/79	0	1	
TUZI0065	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	02/06/73-02/06/73	0	1	
TUZI0081	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	02/08/78-02/08/78	0	1	
TUZI0085	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	02/07/73-02/07/73	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation **From 10/10/51 To 07/23/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
TUZI0098	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	03/24/76-03/10/83	6	49	
TUZI0102	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	01/26/73-01/30/73	0	2	
TUZI0103	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	04/26/77-04/26/77	0	1	
TUZI0106	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	01/26/73-02/07/73	0	3	
TUZI0109	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/10/51-10/10/51	0	1	
TUZI0111	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/10/51-10/10/51	0	1	
TUZI0112	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/10/51-10/10/51	0	1	
TUZI0114	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/10/51-10/10/51	0	1	
TUZI0115	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/08/77-06/08/77	0	1	
TUZI0031	Yes	70302	SOLIDS, DISSOLVED-TONS PER DAY	06/12/79-06/12/79	0	1	
TUZI0032	Yes	70302	SOLIDS, DISSOLVED-TONS PER DAY	06/21/77-06/21/77	0	1	
TUZI0047	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	06/12/79-06/12/79	0	1	
TUZI0098	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	03/24/76-02/01/83	6	66	
TUZI0103	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	04/26/77-04/26/77	0	1	
TUZI0002	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	04/04/78-04/04/78	0	1	
TUZI0004	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	12/20/77-12/20/77	0	1	
TUZI0014	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	02/09/78-02/09/78	0	1	
TUZI0021	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	05/04/78-05/04/78	0	1	
TUZI0031	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	06/12/79-06/12/79	0	1	
TUZI0032	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	06/21/77-06/21/77	0	1	
TUZI0040	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/29/58-10/29/58	0	1	
TUZI0042	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/18/59-04/14/65	5	4	
TUZI0047	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	06/12/79-06/12/79	0	1	
TUZI0081	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	02/08/78-02/08/78	0	1	
TUZI0098	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	03/24/76-02/01/83	6	66	
TUZI0103	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	04/26/77-04/26/77	0	1	
TUZI0109	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/10/51-10/10/51	0	1	
TUZI0112	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/10/51-10/10/51	0	1	
TUZI0114	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/10/51-10/10/51	0	1	
TUZI0083	Yes	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	10/31/79-10/31/79	0	1	
TUZI0088	No	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	10/31/79-04/30/80	0	3	
TUZI0098	No	70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	02/25/88-02/25/88	0	1	
TUZI0098	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	10/27/82-08/30/94	11	33	
TUZI0098	No	70950	BIOMASS-CHLOROPHYLL RATIO, PERIPHYTON (UNITS)	06/11/79-06/11/79	0	1	
TUZI0098	No	70957	CHLOROPHYLL-A,PERIPHYTON UG/L,CHROMO-FLUORO	06/13/78-06/11/79	0	2	
TUZI0098	No	70958	CHLOROPHYLL-B,PERIPHYTON UG/L,CHROMO-FLUORO	06/13/78-06/11/79	0	2	
TUZI0051	No	71830	HYDROXIDE ION (MG/L AS OH)	11/19/90-11/19/90	0	1	
TUZI0098	No	71830	HYDROXIDE ION (MG/L AS OH)	02/26/87-08/25/87	0	3	
TUZI0006	No	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	07/08/77-07/08/77	0	1	
TUZI0008	No	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	02/13/73-02/13/73	0	1	
TUZI0010	No	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	04/15/80-05/21/80	0	2	
TUZI0011	No	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	02/12/80-05/21/80	0	4	
TUZI0012	No	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	02/12/80-05/21/80	0	4	
TUZI0014	No	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/09/58-11/30/76	18	3	
TUZI0015	No	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	02/08/73-02/08/73	0	1	
TUZI0016	No	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/15/58-10/15/58	0	1	
TUZI0018	No	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	08/09/73-08/22/73	0	3	
TUZI0036	No	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	09/01/76-05/20/80	3	7	
TUZI0042	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	08/18/59-08/11/75	15	6	
TUZI0043	No	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	01/30/73-08/22/73	0	5	
TUZI0044	No	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	02/08/73-02/08/73	0	1	
TUZI0045	No	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	02/08/73-02/08/73	0	1	
TUZI0046	No	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	01/26/73-04/16/80	7	9	
TUZI0065	No	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	01/30/73-06/13/79	6	3	
TUZI0066	No	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	02/12/80-04/29/83	3	6	
TUZI0068	No	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	02/12/80-05/20/80	0	4	
TUZI0070	No	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	02/12/80-05/20/80	0	4	
TUZI0071	No	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	08/09/73-05/20/80	6	8	
TUZI0083	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/31/79-10/31/79	0	1	
TUZI0085	No	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	02/07/73-02/07/73	0	1	
TUZI0088	No	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/31/79-01/16/80	0	2	
TUZI0097	No	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	11/12/74-12/29/76	2	6	
TUZI0100	No	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/10/74-09/09/76	1	4	
TUZI0102	No	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	01/26/73-09/09/76	3	8	
TUZI0106	No	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	01/26/73-09/09/76	3	9	
TUZI0112	No	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/10/51-10/10/51	0	1	
TUZI0114	No	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/10/51-10/10/51	0	1	
TUZI0005	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/24/58-07/26/74	15	3	
TUZI0040	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/29/58-10/29/58	0	1	
TUZI0071	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/05/80-08/05/80	0	1	
TUZI0098	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/24/76-01/12/77	0	2	
TUZI0109	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/10/51-10/10/51	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

**Station/Parameter Period of Record Tabulation
From 10/10/51 To 07/23/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
TUZI0111	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/10/51-10/10/51	0	1	
TUZI0098	No	71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	03/24/76-01/12/77	0	2	
TUZI0098	No	71865	IODIDE (MG/L AS I)	07/03/91-07/03/91	0	1	
TUZI0101	No	71865	IODIDE (MG/L AS I)	07/02/91-07/02/91	0	1	
TUZI0104	No	71865	IODIDE (MG/L AS I)	07/02/91-07/02/91	0	1	
TUZI0108	No	71865	IODIDE (MG/L AS I)	07/04/91-07/04/91	0	1	
TUZI0002	No	71870	BROMIDE (MG/L AS BR)	07/21/93-07/21/93	0	1	
TUZI0006	No	71870	BROMIDE (MG/L AS BR)	07/20/93-07/20/93	0	1	
TUZI0014	No	71870	BROMIDE (MG/L AS BR)	07/26/93-07/26/93	0	1	
TUZI0098	No	71870	BROMIDE (MG/L AS BR)	07/03/91-07/03/91	0	1	
TUZI0101	No	71870	BROMIDE (MG/L AS BR)	07/02/91-07/02/91	0	1	
TUZI0104	No	71870	BROMIDE (MG/L AS BR)	07/02/91-07/02/91	0	1	
TUZI0108	No	71870	BROMIDE (MG/L AS BR)	07/04/91-07/04/91	0	1	
TUZI0098	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	04/18/79-10/05/83	4	38	
TUZI0032	Yes	71887	NITROGEN, TOTAL, AS NO3 - MG/L	06/21/77-06/21/77	0	1	
TUZI0098	No	71887	NITROGEN, TOTAL, AS NO3 - MG/L	03/24/76-02/01/83	6	56	
TUZI0002	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	07/21/93-07/21/93	0	1	
TUZI0006	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	07/20/93-07/20/93	0	1	
TUZI0010	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	04/15/80-04/15/80	0	1	
TUZI0011	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	04/15/80-04/15/80	0	1	
TUZI0012	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	04/15/80-04/15/80	0	1	
TUZI0014	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	07/26/93-07/26/93	0	1	
TUZI0036	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	04/16/80-04/16/80	0	1	
TUZI0046	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	04/16/80-04/16/80	0	1	
TUZI0051	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	11/15/88-01/07/93	4	12	
TUZI0061	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	02/25/81-02/25/81	0	1	
TUZI0066	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	04/15/80-05/20/80	0	2	
TUZI0068	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	04/15/80-05/20/80	0	2	
TUZI0070	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	04/15/80-05/20/80	0	2	
TUZI0071	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	04/15/80-08/05/80	0	2	
TUZI0090	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	02/25/81-02/25/81	0	1	
TUZI0098	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	10/27/94-07/23/96	1	7	
TUZI0002	No	71900	MERCURY, TOTAL (UG/L AS HG)	02/24/78-04/04/78	0	2	
TUZI0005	No	71900	MERCURY, TOTAL (UG/L AS HG)	03/19/73-07/26/74	1	2	
TUZI0008	No	71900	MERCURY, TOTAL (UG/L AS HG)	02/13/73-02/13/73	0	1	
TUZI0010	No	71900	MERCURY, TOTAL (UG/L AS HG)	04/15/80-05/21/80	0	2	
TUZI0011	No	71900	MERCURY, TOTAL (UG/L AS HG)	02/12/80-05/21/80	0	4	
TUZI0012	No	71900	MERCURY, TOTAL (UG/L AS HG)	02/12/80-05/21/80	0	4	
TUZI0013	No	71900	MERCURY, TOTAL (UG/L AS HG)	07/28/87-07/28/87	0	1	
TUZI0015	No	71900	MERCURY, TOTAL (UG/L AS HG)	02/08/73-02/08/73	0	1	
TUZI0018	No	71900	MERCURY, TOTAL (UG/L AS HG)	08/22/73-08/22/73	0	1	
TUZI0021	No	71900	MERCURY, TOTAL (UG/L AS HG)	05/04/78-05/04/78	0	1	
TUZI0023	No	71900	MERCURY, TOTAL (UG/L AS HG)	12/06/88-12/06/88	0	1	
TUZI0026	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	12/06/88-12/06/88	0	1	
TUZI0027	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	12/06/88-12/06/88	0	1	
TUZI0029	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	12/06/88-12/06/88	0	1	
TUZI0032	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	06/21/77-06/21/77	0	1	
TUZI0033	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	12/06/88-12/06/88	0	1	
TUZI0034	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	08/04/93-08/04/93	0	1	
TUZI0036	No	71900	MERCURY, TOTAL (UG/L AS HG)	09/01/76-08/26/80	3	8	
TUZI0043	No	71900	MERCURY, TOTAL (UG/L AS HG)	01/30/73-01/30/73	0	1	
TUZI0044	No	71900	MERCURY, TOTAL (UG/L AS HG)	02/08/73-02/08/73	0	1	
TUZI0045	No	71900	MERCURY, TOTAL (UG/L AS HG)	02/08/73-02/08/73	0	1	
TUZI0046	No	71900	MERCURY, TOTAL (UG/L AS HG)	01/30/73-08/26/80	7	8	
TUZI0049	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	08/04/93-08/04/93	0	1	
TUZI0051	No	71900	MERCURY, TOTAL (UG/L AS HG)	11/15/88-01/07/93	4	31	
TUZI0059	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	08/04/93-08/04/93	0	1	
TUZI0065	No	71900	MERCURY, TOTAL (UG/L AS HG)	01/30/73-06/13/79	6	2	
TUZI0066	No	71900	MERCURY, TOTAL (UG/L AS HG)	02/12/80-04/29/83	3	14	
TUZI0067	No	71900	MERCURY, TOTAL (UG/L AS HG)	08/04/93-08/04/93	0	2	
TUZI0068	No	71900	MERCURY, TOTAL (UG/L AS HG)	02/12/80-12/09/80	0	12	
TUZI0069	No	71900	MERCURY, TOTAL (UG/L AS HG)	02/25/88-10/25/88	0	4	
TUZI0070	No	71900	MERCURY, TOTAL (UG/L AS HG)	02/12/80-12/09/80	0	12	
TUZI0071	No	71900	MERCURY, TOTAL (UG/L AS HG)	08/22/73-12/09/80	7	15	
TUZI0074	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	08/04/93-08/04/93	0	2	
TUZI0076	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	08/04/93-08/04/93	0	1	
TUZI0077	No	71900	MERCURY, TOTAL (UG/L AS HG)	08/03/93-08/03/93	0	1	
TUZI0079	No	71900	MERCURY, TOTAL (UG/L AS HG)	08/04/93-08/04/93	0	2	
TUZI0081	No	71900	MERCURY, TOTAL (UG/L AS HG)	02/08/78-02/08/78	0	1	
TUZI0082	No	71900	MERCURY, TOTAL (UG/L AS HG)	08/03/93-08/03/93	0	1	
TUZI0084	No	71900	MERCURY, TOTAL (UG/L AS HG)	08/03/93-08/03/93	0	1	
TUZI0087	No	71900	MERCURY, TOTAL (UG/L AS HG)	08/03/93-08/03/93	0	1	

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**Station/Parameter Period of Record Tabulation
From 10/10/51 To 07/23/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
TUZI0089	No	71900	MERCURY, TOTAL (UG/L AS HG)	08/03/93-08/03/93	0	1	
TUZI0096	No	71900	MERCURY, TOTAL (UG/L AS HG)	04/26/90-07/24/91	1	6	
TUZI0097	No	71900	MERCURY, TOTAL (UG/L AS HG)	11/12/74-03/25/75	0	5	
TUZI0098	No	71900	MERCURY, TOTAL (UG/L AS HG)	03/24/76-07/23/96	20	137	A,S
TUZI0100	No	71900	MERCURY, TOTAL (UG/L AS HG)	10/10/74-09/09/76	1	4	
TUZI0102	No	71900	MERCURY, TOTAL (UG/L AS HG)	01/30/73-09/09/76	3	5	
TUZI0106	No	71900	MERCURY, TOTAL (UG/L AS HG)	01/30/73-09/09/76	3	6	
TUZI0013	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	07/27/87-07/27/87	0	1	
TUZI0013	No	71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	07/27/87-07/27/87	0	1	
TUZI0013	No	71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	07/27/87-07/27/87	0	1	
TUZI0013	No	71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	07/27/87-07/27/87	0	1	
TUZI0013	No	71938	ZINC,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	07/27/87-07/27/87	0	1	
TUZI0013	No	71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	07/27/87-07/27/87	0	1	
TUZI0013	No	71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	07/27/87-07/27/87	0	1	
TUZI0013	No	73529	BENZENAMINE, 4-CHLORO- TOTWUG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	73529	BENZENAMINE, 4-CHLORO- TOTWUG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	73605	BENZENAMINE, 4-NITRO- TOTWUG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	73605	BENZENAMINE, 4-NITRO- TOTWUG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	75212	BENZYL ALCOHOL SEDIMENT,DRY WGT,UG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	75315	BENZOIC ACID SEDIMENT,DRY WGT,UG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	75647	DIBENZOFURAN SEDIMENT,DRY WGT,UG/KG	07/27/87-07/27/87	0	1	
TUZI0098	No	75985	TRITIUM,1 SIGMA PRC EST, TOTAL, WATER PC/L	07/03/91-07/03/91	0	1	
TUZI0013	No	76184	BENZYL ALCOHOL TISSUE ,WET WGT,MG/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	76184	BENZYL ALCOHOL TISSUE ,WET WGT,MG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	76287	BENZOIC ACID TISSUE ,WET WGT,MG/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	76287	BENZOIC ACID TISSUE ,WET WGT,MG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	76619	DIBENZOFURAN TISSUE ,WET WGT,MG/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	76619	DIBENZOFURAN TISSUE ,WET WGT,MG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	76982	4-CHLORO-3,5-DIMETHYLPHENOL, IN WATER UG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	76982	4-CHLORO-3,5-DIMETHYLPHENOL, IN WATER UG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	77146	P-CRESOL WHOLE WATER,UG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	77146	P-CRESOL WHOLE WATER,UG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	77147	BENZYL ALCOHOL WHOLE WATER,UG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	77147	BENZYL ALCOHOL WHOLE WATER,UG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	77152	O-CRESOL WHOLE WATER,UG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	77152	O-CRESOL WHOLE WATER,UG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	77247	BENZOIC ACID WHOLE WATER,UG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	77247	BENZOIC ACID WHOLE WATER,UG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	77416	2-METHYLNAPHTHALENE WHOLE WATER,UG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	77416	2-METHYLNAPHTHALENE WHOLE WATER,UG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	77687	2,4,5-TRICHLOROPHENOL WHOLE WATER,UG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	77687	2,4,5-TRICHLOROPHENOL WHOLE WATER,UG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	78008	ENDRIN KETONE IN WATER UG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	78142	ORTHO NITROANILINE IN WHOLE WATER UG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	78142	ORTHO NITROANILINE IN WHOLE WATER UG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	78211	ENDRIN KETONE IN FISH TISSUE WETWTMG/KG	07/28/87-07/28/87	0	1	
TUZI0013	No	78299	2-NITROANILINE IN SEDIMENT, DRY WEIGHT UG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	78300	3-NITROANILINE, TOTAL, IN WATER UG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	78300	3-NITROANILINE, TOTAL, IN WATER UG/L	07/28/87-07/28/87	0	1	
TUZI0013	No	78395	2-METHYLPHENOL SEDWETWTMG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	78396	4METHYLPHENOL SEDWETWTMG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	78401	2,4,5-TRICHLOROPHENOL IN SEDIMENT,DRY WEIGHT,UG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	78867	4-CHLOROANILINE IN SEDIMENT DRY WEIGHT UG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	78869	3-NITROANILINE IN SEDIMENT DRY WEIGHT UG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	78870	4-NITROANILINE IN SEDIMENT DRY WEIGHT UG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	79025	CHLORDANE, ALPHA, IN FISH WET WEIGHT UG/KG	07/28/87-07/28/87	0	1	
TUZI0013	No	79040	DIBENZ(A,H)ANTHRACENE TISWETWTMG/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	79040	DIBENZ(A,H)ANTHRACENE TISWETWTMG/KG	07/27/87-07/27/87	0	1	
TUZI0098	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/11/78-08/30/94	15	121	A
TUZI0098	No	80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/11/78-12/29/82	4	33	
TUZI0013	No	81302	DIBENZOFURAN(C12H8O) WHOLE WATER SAMPLE UG/L	07/27/87-07/27/87	0	1	
TUZI0099	No	81302	DIBENZOFURAN(C12H8O) WHOLE WATER SAMPLE UG/L	07/28/87-07/28/87	0	1	
TUZI0017	No	81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	06/30/92-06/30/92	0	2	
TUZI0019	No	81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	07/01/92-07/01/92	0	1	
TUZI0020	No	81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	06/30/92-06/30/92	0	1	
TUZI0022	No	81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	06/30/92-06/30/92	0	1	
TUZI0024	Yes	81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	06/29/92-06/29/92	0	1	
TUZI0025	Yes	81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	06/30/92-06/30/92	0	2	
TUZI0028	Yes	81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	06/30/92-06/30/92	0	1	
TUZI0030	No	81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	06/29/92-06/29/92	0	1	
TUZI0034	Yes	81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	08/04/93-08/04/93	0	2	
TUZI0035	No	81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	07/01/92-07/01/92	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation From 10/10/51 To 07/23/96

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
TUZI0037	No	81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	07/01/92-07/01/92	0	1	
TUZI0038	No	81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	06/30/92-06/30/92	0	1	
TUZI0039	Yes	81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	06/29/92-06/29/92	0	1	
TUZI0041	No	81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	06/30/92-06/30/92	0	1	
TUZI0048	Yes	81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	06/29/92-06/29/92	0	1	
TUZI0049	Yes	81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	08/04/93-08/04/93	0	2	
TUZI0050	Yes	81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	08/04/93-08/04/93	0	2	
TUZI0052	No	81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	08/04/93-08/04/93	0	4	
TUZI0053	No	81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	07/01/92-07/01/92	0	1	
TUZI0054	No	81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	08/04/93-08/04/93	0	2	
TUZI0055	No	81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	06/29/92-06/29/92	0	1	
TUZI0056	No	81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	08/04/93-08/04/93	0	2	
TUZI0057	No	81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	08/04/93-08/04/93	0	2	
TUZI0058	No	81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	08/04/93-08/04/93	0	2	
TUZI0059	Yes	81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	08/04/93-08/04/93	0	2	
TUZI0060	No	81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	08/04/93-08/04/93	0	2	
TUZI0063	No	81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	08/04/93-08/04/93	0	2	
TUZI0064	No	81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	06/29/92-06/29/92	0	1	
TUZI0067	No	81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	08/04/93-08/04/93	0	2	
TUZI0072	No	81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	06/29/92-06/29/92	0	1	
TUZI0073	No	81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	06/30/92-06/30/92	0	2	
TUZI0074	Yes	81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	08/04/93-08/04/93	0	4	
TUZI0076	Yes	81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	08/04/93-08/04/93	0	2	
TUZI0077	No	81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	08/03/93-08/03/93	0	2	
TUZI0078	No	81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	08/04/93-08/04/93	0	2	
TUZI0079	No	81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	08/04/93-08/04/93	0	4	
TUZI0080	No	81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	06/30/92-06/30/92	0	1	
TUZI0082	No	81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	08/03/93-08/03/93	0	2	
TUZI0084	No	81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	08/03/93-08/03/93	0	2	
TUZI0086	No	81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	06/29/92-06/29/92	0	1	
TUZI0087	No	81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	08/03/93-08/03/93	0	2	
TUZI0089	No	81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	08/03/93-08/03/93	0	2	
TUZI0092	No	81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	06/29/92-06/29/92	0	1	
TUZI0093	No	81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	06/29/92-06/29/92	0	1	
TUZI0095	No	81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	06/30/92-06/30/92	0	1	
TUZI0013	No	81644	METHOXYCHLOR IN FISH TISSUE,UG/G WET WEIGHT	07/28/87-07/28/87	0	1	
TUZI0034	Yes	81951	TOTAL ORGANIC CARBON(TOC)SEDIMENT DRY WEIGHT MG/KG	08/04/93-08/04/93	0	1	
TUZI0049	Yes	81951	TOTAL ORGANIC CARBON(TOC)SEDIMENT DRY WEIGHT MG/KG	08/04/93-08/04/93	0	1	
TUZI0050	Yes	81951	TOTAL ORGANIC CARBON(TOC)SEDIMENT DRY WEIGHT MG/KG	08/04/93-08/04/93	0	1	
TUZI0052	No	81951	TOTAL ORGANIC CARBON(TOC)SEDIMENT DRY WEIGHT MG/KG	08/04/93-08/04/93	0	2	
TUZI0054	No	81951	TOTAL ORGANIC CARBON(TOC)SEDIMENT DRY WEIGHT MG/KG	08/04/93-08/04/93	0	1	
TUZI0056	No	81951	TOTAL ORGANIC CARBON(TOC)SEDIMENT DRY WEIGHT MG/KG	08/04/93-08/04/93	0	1	
TUZI0057	No	81951	TOTAL ORGANIC CARBON(TOC)SEDIMENT DRY WEIGHT MG/KG	08/04/93-08/04/93	0	1	
TUZI0058	No	81951	TOTAL ORGANIC CARBON(TOC)SEDIMENT DRY WEIGHT MG/KG	08/04/93-08/04/93	0	1	
TUZI0059	Yes	81951	TOTAL ORGANIC CARBON(TOC)SEDIMENT DRY WEIGHT MG/KG	08/04/93-08/04/93	0	1	
TUZI0060	No	81951	TOTAL ORGANIC CARBON(TOC)SEDIMENT DRY WEIGHT MG/KG	08/04/93-08/04/93	0	1	
TUZI0063	No	81951	TOTAL ORGANIC CARBON(TOC)SEDIMENT DRY WEIGHT MG/KG	08/04/93-08/04/93	0	1	
TUZI0067	No	81951	TOTAL ORGANIC CARBON(TOC)SEDIMENT DRY WEIGHT MG/KG	08/04/93-08/04/93	0	1	
TUZI0074	Yes	81951	TOTAL ORGANIC CARBON(TOC)SEDIMENT DRY WEIGHT MG/KG	08/04/93-08/04/93	0	2	
TUZI0076	Yes	81951	TOTAL ORGANIC CARBON(TOC)SEDIMENT DRY WEIGHT MG/KG	08/04/93-08/04/93	0	1	
TUZI0077	No	81951	TOTAL ORGANIC CARBON(TOC)SEDIMENT DRY WEIGHT MG/KG	08/03/93-08/03/93	0	1	
TUZI0078	No	81951	TOTAL ORGANIC CARBON(TOC)SEDIMENT DRY WEIGHT MG/KG	08/04/93-08/04/93	0	1	
TUZI0079	No	81951	TOTAL ORGANIC CARBON(TOC)SEDIMENT DRY WEIGHT MG/KG	08/04/93-08/04/93	0	2	
TUZI0082	No	81951	TOTAL ORGANIC CARBON(TOC)SEDIMENT DRY WEIGHT MG/KG	08/03/93-08/03/93	0	1	
TUZI0084	No	81951	TOTAL ORGANIC CARBON(TOC)SEDIMENT DRY WEIGHT MG/KG	08/03/93-08/03/93	0	1	
TUZI0087	No	81951	TOTAL ORGANIC CARBON(TOC)SEDIMENT DRY WEIGHT MG/KG	08/03/93-08/03/93	0	1	
TUZI0089	No	81951	TOTAL ORGANIC CARBON(TOC)SEDIMENT DRY WEIGHT MG/KG	08/03/93-08/03/93	0	1	
TUZI0098	No	82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	02/19/81-02/19/81	0	1	
TUZI0051	No	82078	TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS, NTU	11/19/91-01/07/93	1	6	
TUZI0009	No	82079	TURBIDITY, LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	03/28/90-09/12/91	1	17	
TUZI0010	No	82079	TURBIDITY, LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	04/15/80-05/21/80	0	2	
TUZI0011	No	82079	TURBIDITY, LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	02/12/80-05/21/80	0	4	
TUZI0012	No	82079	TURBIDITY, LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	02/12/80-05/21/80	0	4	
TUZI0023	No	82079	TURBIDITY, LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	12/06/88-12/06/88	0	1	
TUZI0026	Yes	82079	TURBIDITY, LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	12/06/88-12/06/88	0	1	
TUZI0027	Yes	82079	TURBIDITY, LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	12/06/88-12/06/88	0	1	
TUZI0029	Yes	82079	TURBIDITY, LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	12/06/88-12/06/88	0	1	
TUZI0033	Yes	82079	TURBIDITY, LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	12/06/88-12/06/88	0	1	
TUZI0036	No	82079	TURBIDITY, LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	02/12/80-05/20/80	0	3	
TUZI0046	No	82079	TURBIDITY, LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	02/12/80-04/16/80	0	3	
TUZI0051	No	82079	TURBIDITY, LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	11/15/88-01/07/93	4	31	
TUZI0066	No	82079	TURBIDITY, LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	02/12/80-04/29/83	3	6	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation **From 10/10/51 To 07/23/96**

Station	In Park	Code	Name	Start - End	Years	Obs	Plots ¹
TUZI0068	No	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	02/12/80-05/20/80	0	4	
TUZI0069	No	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	02/25/88-10/25/88	0	4	
TUZI0070	No	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	02/12/80-05/20/80	0	3	
TUZI0071	No	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	02/12/80-05/20/80	0	4	
TUZI0096	No	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	04/26/90-07/24/91	1	6	
TUZI0098	No	82081	CARBON-13 / CARBON-12 STABLE ISOTOPE RATIO PER MIL	07/03/91-07/03/91	0	1	
TUZI0108	No	82081	CARBON-13 / CARBON-12 STABLE ISOTOPE RATIO PER MIL	07/04/91-07/04/91	0	1	
TUZI0061	No	82082	DEUTERIUM/PROTIUM (H-2/H-1) STABLE ISOTOPE RATIO	02/25/81-02/25/81	0	1	
TUZI0090	No	82082	DEUTERIUM/PROTIUM (H-2/H-1) STABLE ISOTOPE RATIO	02/25/81-02/25/81	0	1	
TUZI0098	No	82082	DEUTERIUM/PROTIUM (H-2/H-1) STABLE ISOTOPE RATIO	07/03/91-07/03/91	0	1	
TUZI0101	No	82082	DEUTERIUM/PROTIUM (H-2/H-1) STABLE ISOTOPE RATIO	07/02/91-07/02/91	0	1	
TUZI0104	No	82082	DEUTERIUM/PROTIUM (H-2/H-1) STABLE ISOTOPE RATIO	07/02/91-07/02/91	0	1	
TUZI0108	No	82082	DEUTERIUM/PROTIUM (H-2/H-1) STABLE ISOTOPE RATIO	07/04/91-07/04/91	0	1	
TUZI0061	No	82085	OXYGEN-18/OXYGEN-16 STABLE ISOTOPE RATIO PER MIL	02/25/81-02/25/81	0	1	
TUZI0090	No	82085	OXYGEN-18/OXYGEN-16 STABLE ISOTOPE RATIO PER MIL	02/25/81-02/25/81	0	1	
TUZI0098	No	82085	OXYGEN-18/OXYGEN-16 STABLE ISOTOPE RATIO PER MIL	07/03/91-07/03/91	0	1	
TUZI0101	No	82085	OXYGEN-18/OXYGEN-16 STABLE ISOTOPE RATIO PER MIL	07/02/91-07/02/91	0	1	
TUZI0104	No	82085	OXYGEN-18/OXYGEN-16 STABLE ISOTOPE RATIO PER MIL	07/02/91-07/02/91	0	1	
TUZI0108	No	82085	OXYGEN-18/OXYGEN-16 STABLE ISOTOPE RATIO PER MIL	07/04/91-07/04/91	0	1	
TUZI0010	No	82233	SILICON (SI) TOTAL IN WATER MG/L AS (SIO2)	05/21/80-05/21/80	0	1	
TUZI0011	No	82233	SILICON (SI) TOTAL IN WATER MG/L AS (SIO2)	05/21/80-05/21/80	0	1	
TUZI0012	No	82233	SILICON (SI) TOTAL IN WATER MG/L AS (SIO2)	05/21/80-05/21/80	0	1	
TUZI0071	No	82233	SILICON (SI) TOTAL IN WATER MG/L AS (SIO2)	05/20/80-05/20/80	0	1	
TUZI0098	No	82398	SAMPLING METHOD (CODES)	06/29/76-06/25/96	19	102	
TUZI0002	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	04/04/78-07/21/93	15	2	
TUZI0003	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	02/24/78-02/24/78	0	1	
TUZI0005	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	10/24/58-07/26/74	15	3	
TUZI0006	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	07/08/77-07/20/93	16	2	
TUZI0008	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	02/13/73-02/13/73	0	1	
TUZI0014	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	10/09/58-07/26/93	34	5	
TUZI0016	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	10/15/58-10/15/58	0	1	
TUZI0032	Yes	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	06/21/77-06/21/77	0	1	
TUZI0040	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	10/29/58-10/29/58	0	1	
TUZI0042	Yes	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	08/18/59-08/11/75	15	6	
TUZI0081	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	02/08/78-02/08/78	0	1	
TUZI0109	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	12/13/52-12/13/52	0	1	
TUZI0111	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	10/10/51-12/13/52	1	3	
TUZI0112	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	10/10/51-12/13/52	1	3	
TUZI0114	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	10/10/51-10/10/51	0	1	
TUZI0115	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	06/08/77-06/08/77	0	1	
TUZI0002	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	04/04/78-07/21/93	15	2	
TUZI0003	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	02/24/78-02/24/78	0	1	
TUZI0005	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	10/24/58-07/26/74	15	3	
TUZI0006	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	07/08/77-07/20/93	16	2	
TUZI0008	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	02/13/73-02/13/73	0	1	
TUZI0014	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	10/09/58-07/26/93	34	5	
TUZI0016	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	10/15/58-10/15/58	0	1	
TUZI0021	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	05/04/78-05/04/78	0	1	
TUZI0032	Yes	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	06/21/77-06/21/77	0	1	
TUZI0040	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	10/29/58-10/29/58	0	1	
TUZI0042	Yes	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	08/18/59-08/11/75	15	6	
TUZI0081	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	02/08/78-02/08/78	0	1	
TUZI0109	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	12/13/52-12/13/52	0	1	
TUZI0111	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	10/10/51-12/13/52	1	3	
TUZI0112	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	10/10/51-12/13/52	1	3	
TUZI0114	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	10/10/51-10/10/51	0	1	
TUZI0115	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	06/08/77-06/08/77	0	1	
TUZI0013	No	85759	NITROANILINE, 2- , TISSUE, WET WT, MG/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	85759	NITROANILINE, 2- , TISSUE, WET WT, MG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	85760	CHLORANILINE, 4- , TISSUE, WET WT, MG/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	85760	CHLORANILINE, 4- , TISSUE, WET WT, MG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	85762	NITROANILINE, 4- , TISSUE, WET WT, MG/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	85762	NITROANILINE, 4- , TISSUE, WET WT, MG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	85763	NITROANILINE, 3- , TISSUE, WET WT, MG/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	85763	NITROANILINE, 3- , TISSUE, WET WT, MG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	85766	METHYLPHENOL, 4- , TISSUE, WET WT, MG/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	85766	METHYLPHENOL, 4- , TISSUE, WET WT, MG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	85767	METHYLPHENOL, 2- , TISSUE, WET WT, MG/KG	07/27/87-07/27/87	0	1	
TUZI0099	No	85767	METHYLPHENOL, 2- , TISSUE, WET WT, MG/KG	07/27/87-07/27/87	0	1	
TUZI0013	No	85791	ENDRIN KETONE, SEDIMENT, DRY WT,(SF) UG/KG	07/28/87-07/28/87	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station-By-Station Results

Station Inventory for Station: TUZI0001

NPS Station ID: TUZI0001 LAT/LON: 34.723003/-112.117309

Location: NURE STATION WITHIN TEN MILES OF MONUMENT

Station Type: /TYPA/AMBNT/SPRING

RMI-Indexes:

RMI-Miles:

HUC: 15060202

Major Basin: COLORADO RIVER

Minor Basin: GILA RIVER

RF1 Index: 15060202

RF3 Index: 15060202002505.59

Description:

THE SITE IS LOCATED ON THE COTTONWOOD; YAVAPAI CO-AZ 1:24000 SERIES USGS TOPOGRAPHIC QUADRANGLE. THE SITE IS LOCATED ON A SPRING OUTSIDE THE TUZIGOOT NATIONAL MONUMENT BOUNDARIES. THE SAMPLES ARE FILTERED THROUGH A 0.45 MICRON FILTER. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY; NATIONAL GEOCHEMICAL DATA BASE; NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE SAMPLES WERE ANALYZED BY LAWRENCE LIVERMORE LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY MARY BETH TALTY OF NPS-WRD FORT COLLINS; CO 80525. TEL. (970) 225-3516.

Agency: 11NPSWRD

FIPS State/County: 04025 ARIZONA/YAVAPAI

STORET Station ID(s): TUZI_NURE_3 /NURE_8085097

Within Park Boundary: No

Date Created: 04/18/98

Depth of Water: 0

Elevation: 0

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.01

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: TUZI0001

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/07/78-07/07/78	1	14.5	14.5	14.5	14.5	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/07/78-07/07/78	1	398.	398.	398.	398.	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)	07/07/78-07/07/78	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	07/07/78-07/07/78	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/07/78-07/07/78	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	07/07/78-07/07/78	1	249.	249.	249.	249.	0.	0.	**	**	**	**
00666 PHOSPHORUS, DISSOLVED (MG/L AS P)	07/07/78-07/07/78	1	0.225	0.225	0.225	0.225	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	07/07/78-07/07/78	1	40.2	40.2	40.2	40.2	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	07/07/78-07/07/78	1	21.	21.	21.	21.	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS Na)	07/07/78-07/07/78	1	6.87	6.87	6.87	6.87	0.	0.	**	**	**	**
00946 SULFATE, DISSOLVED (MG/L AS SO4)	07/07/78-07/07/78	1	7.	7.	7.	7.	0.	0.	**	**	**	**
01000 ARSENIC, DISSOLVED (UG/L AS AS)	07/07/78-07/07/78	1	94.	94.	94.	94.	0.	0.	**	**	**	**
01025 CADMIUM, DISSOLVED (UG/L AS CD)	07/07/78-07/07/78	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01040 COPPER, DISSOLVED (UG/L AS CU)	07/07/78-07/07/78	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01046 IRON, DISSOLVED (UG/L AS FE)	07/07/78-07/07/78	1	33.	33.	33.	33.	0.	0.	**	**	**	**
01060 MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/07/78-07/07/78	1	22.	22.	22.	22.	0.	0.	**	**	**	**
01085 VANADIUM, DISSOLVED (UG/L AS V)	07/07/78-07/07/78	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01090 ZINC, DISSOLVED (UG/L AS ZN)	07/07/78-07/07/78	1	34.	34.	34.	34.	0.	0.	**	**	**	**
01106 ALUMINUM, DISSOLVED (UG/L AS AL)	07/07/78-07/07/78	1	31.	31.	31.	31.	0.	0.	**	**	**	**
01130 LITHIUM, DISSOLVED (UG/L AS LI)	07/07/78-07/07/78	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01140 SILICON, DISSOLVED (UG/L AS SI)	07/07/78-07/07/78	1	14100.	14100.	14100.	14100.	0.	0.	**	**	**	**
01150 TITANIUM, DISSOLVED (UG/L AS TI)	07/07/78-07/07/78	1	2.	2.	2.	2.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0001

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
22703 URANIUM, NATURAL, DISSOLVED	07/07/78-07/07/78	1	0.29	0.29	0.29	0.29	0.	0.	**	**	**	**
50760 CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/07/78-07/07/78	1	4000.	4000.	4000.	4000.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0001

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400 PH	Fresh Chronic	9.	1	0	0.00										1	0	0.00
	Other-Lo Lim.	6.5	1	0	0.00										1	0	0.00
00946 SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	1	0	0.00										1	0	0.00
	Fresh Acute	360.	1	0	0.00										1	0	0.00
01000 ARSENIC, DISSOLVED	Drinking Water	50.	1	1	1.00										1	1	1.00
	Fresh Acute	3.9	1	0	0.00										1	0	0.00
01025 CADMIUM, DISSOLVED	Drinking Water	5.	1	0	0.00										1	0	0.00
	Fresh Acute	18.	1	0	0.00										1	0	0.00
01040 COPPER, DISSOLVED	Drinking Water	1300.	1	0	0.00										1	0	0.00
	Fresh Acute	120.	1	0	0.00										1	0	0.00
01090 ZINC, DISSOLVED	Drinking Water	5000.	1	0	0.00										1	0	0.00
	Fresh Acute	20.	1	0	0.00										1	0	0.00
22703 URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00										1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0002

NPS Station ID: TUZI0002
 Location: A-15-03 05BAA
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 15060202
 Major Basin:
 Minor Basin:
 RF1 Index: 15060202
 RF3 Index: 15060202001608.24
 Description:

LAT/LON: 34.730837/-112.054726

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 9.03

Agency: 112WRD
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): 344351112031701
 Within Park Boundary: No

Date Created: 04/14/78

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.20
 Distance from RF3: 0.07

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: TUZI0002

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/24/78-07/21/93	3	29.	28.667	29.	28.	0.333	0.577	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/24/78-07/21/93	3	640.	623.333	650.	580.	1433.333	37.859	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	07/21/93-07/21/93	1	6.6	6.6	6.6	6.6	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)	02/24/78-07/21/93	3	7.3	7.283	7.35	7.2	0.006	0.076	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	02/24/78-07/21/93	3	7.3	7.279	7.35	7.2	0.006	0.077	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/24/78-07/21/93	3	0.05	0.053	0.063	0.045	0.	0.009	**	**	**	**
00403 PH, LAB, STANDARD UNITS SU	07/21/93-07/21/93	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	07/21/93-07/21/93	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/21/93-07/21/93	1	0.013	0.013	0.013	0.013	0.	0.	**	**	**	**
00405 CARBON DIOXIDE (MG/L AS CO2)	02/24/78-04/04/78	2	25.5	25.5	30.	21.	40.5	6.364	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	02/24/78-07/21/93	3	250.	246.	250.	238.	48.	6.928	**	**	**	**
00440 BICARBONATE ION (MG/L AS HCO3)	02/24/78-04/04/78	2	300.	300.	300.	300.	0.	0.	**	**	**	**
00445 CARBONATE ION (MG/L AS CO3)	02/24/78-04/04/78	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00608 NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	07/21/93-07/21/93	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00613 NITRITE NITROGEN, DISSOLVED (MG/L AS N)	07/21/93-07/21/93	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00631 NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	02/24/78-07/21/93	3	1.4	1.333	1.5	1.1	0.043	0.208	**	**	**	**
00660 PHOSPHATE, ORTHO (MG/L AS PO4)	02/24/78-04/04/78	2	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	02/24/78-07/21/93	3	0.01	0.008	0.01	0.005	0.	0.003	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	02/24/78-04/04/78	2	325.	325.	330.	320.	50.	7.071	**	**	**	**
00902 HARDNESS, NON-CARBONATE (MG/L AS CaCO3)	02/24/78-04/04/78	2	77.5	77.5	85.	70.	112.5	10.607	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	02/24/78-07/21/93	3	75.	73.	75.	69.	12.	3.464	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	02/24/78-07/21/93	3	35.	34.667	35.	34.	0.333	0.577	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS Na)	02/24/78-07/21/93	3	15.	14.667	16.	13.	2.333	1.528	**	**	**	**
00931 SODIUM ADSORPTION RATIO	02/24/78-04/04/78	2	0.35	0.35	0.4	0.3	0.005	0.071	**	**	**	**
00932 SODIUM, PERCENT	02/24/78-04/04/78	2	8.5	8.5	9.	8.	0.5	0.707	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	02/24/78-07/21/93	3	1.	0.967	1.	0.9	0.003	0.058	**	**	**	**
00940 CHLORIDE, TOTAL IN WATER MG/L	04/04/78-07/21/93	2	16.	16.	18.	14.	8.	2.828	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	04/04/78-07/21/93	2	73.	73.	82.	64.	162.	12.728	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	04/04/78-07/21/93	2	0.15	0.15	0.2	0.1	0.005	0.071	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SiO2)	04/04/78-07/21/93	2	24.5	24.5	25.	24.	0.5	0.707	**	**	**	**
01000 ARSENIC, DISSOLVED (UG/L AS AS)	02/24/78-07/21/93	3	13.	13.	15.	11.	4.	2.	**	**	**	**
01005 BARIUM, DISSOLVED (UG/L AS BA)	07/21/93-07/21/93	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01020 BORON, DISSOLVED (UG/L AS B)	04/04/78-07/21/93	2 ##	20.	20.	30.	10.	200.	14.142	**	**	**	**
01032 CHROMIUM, HEXAVALENT (UG/L AS CR)	07/21/93-07/21/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01040 COPPER, DISSOLVED (UG/L AS CU)	07/21/93-07/21/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01046 IRON, DISSOLVED (UG/L AS FE)	02/24/78-07/21/93	3 ##	5.	3.833	5.	1.5	4.083	2.021	**	**	**	**
01049 LEAD, DISSOLVED (UG/L AS PB)	07/21/93-07/21/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01056 MANGANESE, DISSOLVED (UG/L AS MN)	02/24/78-07/21/93	3 ##	5.	3.5	5.	0.5	6.75	2.598	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0002

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01060 MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/21/93-07/21/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01080 STRONTIUM, DISSOLVED (UG/L AS SR)	07/21/93-07/21/93	1	180.	180.	180.	180.	0.	0.	**	**	**	**
01085 VANADIUM, DISSOLVED (UG/L AS V)	07/21/93-07/21/93	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01090 ZINC, DISSOLVED (UG/L AS ZN)	07/21/93-07/21/93	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01130 LITHIUM, DISSOLVED (UG/L AS LI)	07/21/93-07/21/93	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01145 SELENIUM, DISSOLVED (UG/L AS SE)	07/21/93-07/21/93	1	3.	3.	3.	3.	0.	0.	**	**	**	**
70301 SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	04/04/78-04/04/78	1	379.	379.	379.	379.	0.	0.	**	**	**	**
70303 SOLIDS, DISSOLVED-TONS PER ACRE-FT	04/04/78-04/04/78	1	0.52	0.52	0.52	0.52	0.	0.	**	**	**	**
71870 BROMIDE (MG/L AS BR)	07/21/93-07/21/93	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
71890 MERCURY, DISSOLVED (UG/L AS HG)	07/21/93-07/21/93	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)	02/24/78-04/04/78	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0002

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300 OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00										1	0	0.00
00400 PH	Fresh Chronic	9.	3	0	0.00				2	0	0.00				1	0	0.00
	Other-Lo Lim.	6.5	3	0	0.00				2	0	0.00				1	0	0.00
00403 PH, LAB	Fresh Chronic	9.	1	0	0.00										1	0	0.00
	Other-Lo Lim.	6.5	1	0	0.00										1	0	0.00
00613 NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00										1	0	0.00
00631 NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	3	0	0.00				2	0	0.00				1	0	0.00
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00				1	0	0.00				1	0	0.00
	Drinking Water	250.	2	0	0.00				1	0	0.00				1	0	0.00
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	0	0.00				1	0	0.00				1	0	0.00
00950 FLUORIDE, DISSOLVED AS F	Drinking Water	4.	2	0	0.00				1	0	0.00				1	0	0.00
01000 ARSENIC, DISSOLVED	Fresh Acute	360.	3	0	0.00				2	0	0.00				1	0	0.00
	Drinking Water	50.	3	0	0.00				2	0	0.00				1	0	0.00
01005 BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00										1	0	0.00
01032 CHROMIUM, HEXAVALENT	Fresh Acute	16.	1	0	0.00										1	0	0.00
	Drinking Water	100.	1	0	0.00										1	0	0.00
01040 COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00										1	0	0.00
	Drinking Water	1300.	1	0	0.00										1	0	0.00
01049 LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00										1	0	0.00
	Drinking Water	15.	1	0	0.00										1	0	0.00
01090 ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00										1	0	0.00
	Drinking Water	5000.	1	0	0.00										1	0	0.00
01145 SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00										1	0	0.00
	Drinking Water	50.	1	0	0.00										1	0	0.00
71890 MERCURY, DISSOLVED	Fresh Acute	2.4	1	0	0.00										1	0	0.00
	Drinking Water	2.	1	0	0.00										1	0	0.00
71900 MERCURY, TOTAL	Fresh Acute	2.4	2	0	0.00				2	0	0.00						
	Drinking Water	2.	2	0	0.00				2	0	0.00						

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0003

NPS Station ID: TUZI0003
 Location: A-16-03 33DCD
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 15060202
 Major Basin:
 Minor Basin:
 RF1 Index: 15060202
 RF3 Index: 15060202087500.00
 Description:

LAT/LON: 34.732504/-112.032226

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.69

Agency: 112WRD
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): 344357112015601
 Within Park Boundary: No

Date Created: 04/14/78

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 19.40
 Distance from RF3: 0.03

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: TUZI0003

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	02/24/78-02/24/78	1	250.	250.	250.	250.	0.	0.	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	02/24/78-02/24/78	1	300.	300.	300.	300.	0.	0.	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	02/24/78-02/24/78	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	02/24/78-02/24/78	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	02/24/78-02/24/78	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CaCO3)	02/24/78-02/24/78	1	260.	260.	260.	260.	0.	0.	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CaCO3)	02/24/78-02/24/78	1	14.	14.	14.	14.	0.	0.	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS Ca)	02/24/78-02/24/78	1	43.	43.	43.	43.	0.	0.	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS Mg)	02/24/78-02/24/78	1	37.	37.	37.	37.	0.	0.	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS Na)	02/24/78-02/24/78	1	15.	15.	15.	15.	0.	0.	**	**	**
00931	SODIUM ADSORPTION RATIO	02/24/78-02/24/78	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**
00932	SODIUM, PERCENT	02/24/78-02/24/78	1	11.	11.	11.	11.	0.	0.	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	02/24/78-02/24/78	1	2.	2.	2.	2.	0.	0.	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	02/24/78-02/24/78	1	13.	13.	13.	13.	0.	0.	**	**	**
01046	IRON, DISSOLVED (UG/L AS Fe)	02/24/78-02/24/78	1	30.	30.	30.	30.	0.	0.	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS Mn)	02/24/78-02/24/78	1 ##	5.	5.	5.	5.	0.	0.	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0003

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	10.	1	0	0.00				1	0	0.00						
01000	ARSENIC, DISSOLVED	360.	1	0	0.00				1	0	0.00						
	Drinking Water	50.	1	0	0.00				1	0	0.00						

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0004

NPS Station ID: TUZI0004
 Location: A-16-03 31DDC1
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 15060202
 Major Basin:
 Minor Basin:
 RF1 Index: 15060202
 RF3 Index: 15060202006700.05
 Description:

LAT/LON: 34.733059/-112.064170

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.67

Agency: 112WRD
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): 344359112035101
 Within Park Boundary: No

Date Created: 04/14/78

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 10.30
 Distance from RF3: 0.46

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: TUZI0004

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/20/77-12/20/77	1	22.	22.	22.	22.	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/20/77-12/20/77	1	625.	625.	625.	625.	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)	12/20/77-12/20/77	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	12/20/77-12/20/77	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/20/77-12/20/77	1	0.063	0.063	0.063	0.063	0.	0.	**	**	**	**
00405 CARBON DIOXIDE (MG/L AS CO2)	12/20/77-12/20/77	1	28.	28.	28.	28.	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	12/20/77-12/20/77	1	230.	230.	230.	230.	0.	0.	**	**	**	**
00440 BICARBONATE ION (MG/L AS HCO3)	12/20/77-12/20/77	1	280.	280.	280.	280.	0.	0.	**	**	**	**
00445 CARBONATE ION (MG/L AS CO3)	12/20/77-12/20/77	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00631 NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	12/20/77-12/20/77	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
00660 PHOSPHATE, ORTHO (MG/L AS PO4)	12/20/77-12/20/77	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	12/20/77-12/20/77	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	12/20/77-12/20/77	1	320.	320.	320.	320.	0.	0.	**	**	**	**
00902 HARDNESS, NON-CARBONATE (MG/L AS CaCO3)	12/20/77-12/20/77	1	90.	90.	90.	90.	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	12/20/77-12/20/77	1	67.	67.	67.	67.	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS Mg)	12/20/77-12/20/77	1	37.	37.	37.	37.	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS Na)	12/20/77-12/20/77	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00931 SODIUM ADSORPTION RATIO	12/20/77-12/20/77	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00932 SODIUM, PERCENT	12/20/77-12/20/77	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	12/20/77-12/20/77	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
00940 CHLORIDE, TOTAL IN WATER MG/L	12/20/77-12/20/77	1	21.	21.	21.	21.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	12/20/77-12/20/77	1	77.	77.	77.	77.	0.	0.	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	12/20/77-12/20/77	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SiO2)	12/20/77-12/20/77	1	22.	22.	22.	22.	0.	0.	**	**	**	**
01000 ARSENIC, DISSOLVED (UG/L AS AS)	12/20/77-12/20/77	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01020 BORON, DISSOLVED (UG/L AS B)	12/20/77-12/20/77	1	40.	40.	40.	40.	0.	0.	**	**	**	**
01046 IRON, DISSOLVED (UG/L AS Fe)	12/20/77-12/20/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01056 MANGANESE, DISSOLVED (UG/L AS Mn)	12/20/77-12/20/77	1	20.	20.	20.	20.	0.	0.	**	**	**	**
70301 SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	12/20/77-12/20/77	1	383.	383.	383.	383.	0.	0.	**	**	**	**
70303 SOLIDS, DISSOLVED-TONS PER ACRE-FT	12/20/77-12/20/77	1	0.52	0.52	0.52	0.52	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0004

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH																
	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
	Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	10.	1	0	0.00	1	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	860.	1	0	0.00	1	0	0.00									
	Fresh Acute	860.	1	0	0.00	1	0	0.00									
	Drinking Water	250.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	250.	1	0	0.00	1	0	0.00									
00950	FLUORIDE, DISSOLVED AS F	4.	1	0	0.00	1	0	0.00									
01000	ARSENIC, DISSOLVED	360.	1	0	0.00	1	0	0.00									
	Fresh Acute	360.	1	0	0.00	1	0	0.00									
	Drinking Water	50.	1	0	0.00	1	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0005

NPS Station ID: TUZI0005
 Location: A-16-03 31DCA
 Station Type: /TYPA/AMBNT/SPRING
 RMI-Indexes:
 RMI-Miles:
 HUC: 15060202
 Major Basin:
 Minor Basin:
 RF1 Index: 15060202
 RF3 Index: 15060202038900.46
 Description:

LAT/LON: 34.735282/-112.065837

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.91

Agency: 112WRD
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): 344407112035701
 Within Park Boundary: No

Date Created: 02/28/78

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 5.50
 Distance from RF3: 0.31

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: TUZI0005

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/24/58-10/24/58	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/24/58-07/26/74	3	709.	664.667	714.	571.	6586.333	81.156	**	**	**	**
00400 PH (STANDARD UNITS)	10/24/58-03/19/73	2	7.65	7.65	7.7	7.6	0.005	0.071	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	10/24/58-03/19/73	2	7.647	7.647	7.7	7.6	0.005	0.071	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/24/58-03/19/73	2	0.023	0.023	0.025	0.02	0.	0.004	**	**	**	**
00405 CARBON DIOXIDE (MG/L AS CO2)	10/24/58-03/19/73	2	9.5	9.5	12.	7.	12.5	3.536	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	10/24/58-07/26/74	3	180.	200.333	241.	180.	1240.333	35.218	**	**	**	**
00440 BICARBONATE ION (MG/L AS HCO3)	10/24/58-07/26/74	3	220.	244.667	294.	220.	1825.333	42.724	**	**	**	**
00445 CARBONATE ION (MG/L AS CO3)	10/24/58-03/19/73	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00618 NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/24/58-07/26/74	3	1.4	1.367	1.8	0.9	0.203	0.451	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	10/24/58-07/26/74	3	340.	338.667	340.	336.	5.333	2.309	**	**	**	**
00902 HARDNESS, NON-CARBONATE (MG/L AS CaCO3)	10/24/58-07/26/74	3	160.	138.333	160.	95.	1408.333	37.528	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	10/24/58-07/26/74	3	100.	90.667	100.	72.	261.333	16.166	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	10/24/58-07/26/74	3	21.	26.	38.	19.	109.	10.44	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS Na)	03/19/73-07/26/74	2	13.	13.	14.	12.	2.	1.414	**	**	**	**
00931 SODIUM ADSORPTION RATIO	10/24/58-07/26/74	3	0.3	0.4	0.6	0.3	0.03	0.173	**	**	**	**
00932 SODIUM, PERCENT	10/24/58-10/24/58	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00933 SODIUM,PLUS POTASSIUM (MG/L)	10/24/58-10/24/58	1	23.	23.	23.	23.	0.	0.	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	10/24/58-07/26/74	3	26.	23.333	28.	16.	41.333	6.429	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	10/24/58-07/26/74	3	95.	95.	100.	90.	25.	5.	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	10/24/58-07/26/74	3	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SiO2)	10/24/58-10/24/58	1	32.	32.	32.	32.	0.	0.	**	**	**	**
01002 ARSENIC, TOTAL (UG/L AS AS)	03/19/73-07/26/74	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01027 CADMIUM, TOTAL (UG/L AS Cd)	03/19/73-07/26/74	2 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01034 CHROMIUM, TOTAL (UG/L AS CR)	03/19/73-07/26/74	2 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01042 COPPER, TOTAL (UG/L AS CU)	03/19/73-07/26/74	2 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01045 IRON, TOTAL (UG/L AS FE)	03/19/73-07/26/74	2 ##	37.5	37.5	50.	25.	312.5	17.678	**	**	**	**
01051 LEAD, TOTAL (UG/L AS Pb)	03/19/73-07/26/74	2 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01055 MANGANESE, TOTAL (UG/L AS MN)	03/19/73-07/26/74	2 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01077 SILVER, TOTAL (UG/L AS AG)	03/19/73-07/26/74	2 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01092 ZINC, TOTAL (UG/L AS ZN)	03/19/73-07/26/74	2 ##	112.5	112.5	200.	25.	15312.5	123.744	**	**	**	**
01147 SELENIUM, TOTAL (UG/L AS SE)	03/19/73-07/26/74	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
70301 SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/24/58-07/26/74	3	370.	388.333	441.	354.	2144.333	46.307	**	**	**	**
71851 NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/24/58-07/26/74	3	6.	6.	8.	4.	4.	2.	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS Hg)	03/19/73-07/26/74	2 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0005

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----				
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.		
00400	PH																		
	Fresh Chronic	9.	2	0	0.00		1	0	0.00	1	0	0.00							
	Other-Lo Lim.	6.5	2	0	0.00		1	0	0.00	1	0	0.00							
00618	NITRATE NITROGEN, DISSOLVED AS N	10.	3	0	0.00		1	0	0.00	1	0	0.00				1	0	0.00	
00940	CHLORIDE, TOTAL IN WATER	860.	3	0	0.00		1	0	0.00	1	0	0.00				1	0	0.00	
	Drinking Water	250.	3	0	0.00		1	0	0.00	1	0	0.00				1	0	0.00	
00945	SULFATE, TOTAL (AS SO4)	250.	3	0	0.00		1	0	0.00	1	0	0.00				1	0	0.00	
00950	FLUORIDE, DISSOLVED AS F	4.	3	0	0.00		1	0	0.00	1	0	0.00				1	0	0.00	
01002	ARSENIC, TOTAL	360.	2	0	0.00					1	0	0.00				1	0	0.00	
	Fresh Acute	50.	2	0	0.00					1	0	0.00				1	0	0.00	
01027	CADMIUM, TOTAL	3.9	0 &	0	0.00														
	Drinking Water	5.	0 &	0	0.00														
01034	CHROMIUM, TOTAL	100.	2	0	0.00					1	0	0.00				1	0	0.00	
01042	COPPER, TOTAL	18.	0 &	0	0.00														
	Drinking Water	1300.	2	0	0.00														
01051	LEAD, TOTAL	82.	2	0	0.00					1	0	0.00				1	0	0.00	
	Fresh Acute	15.	0 &	0	0.00					1	0	0.00				1	0	0.00	
01077	SILVER, TOTAL	4.1	0 &	0	0.00														
	Drinking Water	100.	2	0	0.00					1	0	0.00				1	0	0.00	
01092	ZINC, TOTAL	120.	2	1	0.50					1	0	0.00				1	1	1.00	
	Fresh Acute	5000.	2	0	0.00					1	0	0.00				1	0	0.00	
01147	SELENIUM, TOTAL	20.	2	0	0.00					1	0	0.00				1	0	0.00	
	Drinking Water	50.	2	0	0.00					1	0	0.00				1	0	0.00	
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	44.	3	0	0.00		1	0	0.00	1	0	0.00				1	0	0.00	
71900	MERCURY, TOTAL	2.4	2	0	0.00					1	0	0.00				1	0	0.00	
	Drinking Water	2.	2	0	0.00					1	0	0.00				1	0	0.00	

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0006

NPS Station ID: TUZI0006
 Location: A-16-03 31DCA
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 15060202
 Major Basin:
 Minor Basin:
 RF1 Index: 15060202
 RF3 Index: 15060202087500.00
 Description:

LAT/LON: 34.735838/-112.066393

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.99

Agency: 112WRD
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): 344409112035901
 Within Park Boundary: No

Date Created: 04/14/78

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 22.80
 Distance from RF3: 0.14

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: TUZI0006

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/20/93-07/20/93	1	21.	21.	21.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/08/77-07/20/93	2	642.5	642.5	660.	612.5	24.749	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/20/93-07/20/93	1	8.3	8.3	8.3	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/08/77-07/20/93	2	7.45	7.45	7.5	0.005	0.071	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/08/77-07/20/93	2	7.447	7.447	7.5	0.005	0.071	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/08/77-07/20/93	2	0.036	0.036	0.04	0.032	0.006	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	07/20/93-07/20/93	1	7.9	7.9	7.9	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	07/20/93-07/20/93	1	7.9	7.9	7.9	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/20/93-07/20/93	1	0.013	0.013	0.013	0.013	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	07/08/77-07/08/77	1	24.	24.	24.	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	07/08/77-07/20/93	2	270.5	270.5	310.	3120.5	55.861	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	07/08/77-07/08/77	1	378.	378.	378.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	07/08/77-07/08/77	1	0.	0.	0.	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	07/20/93-07/20/93	1	0.01	0.01	0.01	0.01	0.	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	07/20/93-07/20/93	1	0.02	0.02	0.02	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	07/20/93-07/20/93	1	1.4	1.4	1.4	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	07/20/93-07/20/93	1	0.02	0.02	0.02	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CaCO3)	07/08/77-07/08/77	1	350.	350.	350.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CaCO3)	07/08/77-07/08/77	1	40.	40.	40.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS Ca)	07/08/77-07/20/93	2	72.	72.	78.	72.	8.485	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/08/77-07/20/93	2	48.	48.	58.	200.	14.142	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS Na)	07/08/77-07/20/93	2	14.	14.	14.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	07/08/77-07/08/77	1	0.3	0.3	0.3	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/20/93-07/20/93	1	0.8	0.8	0.8	0.	0.	**	**	**	**
00940	CHLORIDE, TOTAL IN WATER MG/L	07/08/77-07/20/93	2	21.5	21.5	26.	40.5	6.364	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	07/08/77-07/20/93	2	98.	98.	100.	96.	2.828	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/08/77-07/20/93	2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SiO2)	07/20/93-07/20/93	1	23.	23.	23.	0.	0.	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	07/20/93-07/20/93	1	2.	2.	2.	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	07/08/77-07/08/77	1 ##	2.5	2.5	2.5	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS Ba)	07/20/93-07/20/93	1	20.	20.	20.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	07/20/93-07/20/93	1	30.	30.	30.	0.	0.	**	**	**	**
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	07/20/93-07/20/93	1 ##	0.5	0.5	0.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	07/20/93-07/20/93	1	2.	2.	2.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	07/08/77-07/08/77	1 ##	25.	25.	25.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	07/20/93-07/20/93	1	3.	3.	3.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	07/20/93-07/20/93	1	2.	2.	2.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	07/08/77-07/08/77	1 ##	25.	25.	25.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0006

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01056 MANGANESE, DISSOLVED (UG/L AS MN)	07/20/93-07/20/93	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01060 MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/20/93-07/20/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01080 STRONTIUM, DISSOLVED (UG/L AS SR)	07/20/93-07/20/93	1	180.	180.	180.	180.	0.	0.	**	**	**	**
01085 VANADIUM, DISSOLVED (UG/L AS V)	07/20/93-07/20/93	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01090 ZINC, DISSOLVED (UG/L AS ZN)	07/20/93-07/20/93	1	15.	15.	15.	15.	0.	0.	**	**	**	**
01130 LITHIUM, DISSOLVED (UG/L AS LI)	07/20/93-07/20/93	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01145 SELENIUM, DISSOLVED (UG/L AS SE)	07/20/93-07/20/93	1	3.	3.	3.	3.	0.	0.	**	**	**	**
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/08/77-07/08/77	1	422.	422.	422.	422.	0.	0.	**	**	**	**
71850 NITRATE NITROGEN,TOTAL (MG/L AS NO3)	07/08/77-07/08/77	1	5.	5.	5.	5.	0.	0.	**	**	**	**
71870 BROMIDE (MG/L AS BR)	07/20/93-07/20/93	1	0.24	0.24	0.24	0.24	0.	0.	**	**	**	**
71890 MERCURY, DISSOLVED (UG/L AS HG)	07/20/93-07/20/93	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0006

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300 OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00										1	0	0.00
00400 PH	Fresh Chronic	9.	2	0	0.00										2	0	0.00
	Other-Lo Lim.	6.5	2	0	0.00										2	0	0.00
00403 PH, LAB	Fresh Chronic	9.	1	0	0.00										1	0	0.00
	Other-Lo Lim.	6.5	1	0	0.00										1	0	0.00
00613 NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00										1	0	0.00
00631 NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00										1	0	0.00
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00										2	0	0.00
	Drinking Water	250.	2	0	0.00										2	0	0.00
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	0	0.00										2	0	0.00
00950 FLUORIDE, DISSOLVED AS F	Drinking Water	4.	2	0	0.00										2	0	0.00
01000 ARSENIC, DISSOLVED	Fresh Acute	360.	1	0	0.00										1	0	0.00
	Drinking Water	50.	1	0	0.00										1	0	0.00
01002 ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00										1	0	0.00
	Drinking Water	50.	1	0	0.00										1	0	0.00
01005 BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00										1	0	0.00
01032 CHROMIUM, HEXAVALENT	Fresh Acute	16.	1	0	0.00										1	0	0.00
	Drinking Water	100.	1	0	0.00										1	0	0.00
01040 COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00										1	0	0.00
	Drinking Water	1300.	1	0	0.00										1	0	0.00
01049 LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00										1	0	0.00
	Drinking Water	15.	1	0	0.00										1	0	0.00
01090 ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00										1	0	0.00
	Drinking Water	5000.	1	0	0.00										1	0	0.00
01145 SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00										1	0	0.00
	Drinking Water	50.	1	0	0.00										1	0	0.00
71850 NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	1	0	0.00										1	0	0.00
71890 MERCURY, DISSOLVED	Fresh Acute	2.4	1	0	0.00										1	0	0.00
	Drinking Water	2.	1	0	0.00										1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0007

NPS Station ID: TUZI0007 LAT/LON: 34.739115/-112.133893

Location: NURE STATION WITHIN TEN MILES OF MONUMENT

Station Type: /TYPA/AMBNT/SPRING

RMI-Indexes:

RMI-Miles:

HUC: 15060202

Major Basin: COLORADO RIVER

Minor Basin: GILA RIVER

RF1 Index: 15060202

RF3 Index: 15060202002505.59

Description:

THE SITE IS LOCATED ON THE HICKEY MOUNTAIN; YAVAPAI CO-AZ 1:24000 SERIES USGS TOPOGRAPHIC QUADRANGLE. THE SITE IS LOCATED ON A SPRING OUTSIDE THE TUZIGOOT NATIONAL MONUMENT BOUNDARIES. THE SAMPLES ARE FILTERED THROUGH A 0.45 MICRON FILTER. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY; NATIONAL GEOCHEMICAL DATA BASE; NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE SAMPLES WERE ANALYZED BY LAWRENCE LIVERMORE LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY MARY BETH TALTY OF NPS-WRD FORT COLLINS; CO 80525. TEL. (970) 225-3516.

Agency: 11NPSWRD

FIPS State/County: 04025 ARIZONA/YAVAPAI

STORET Station ID(s): TUZI_NURE_2 /NURE_8085093

Within Park Boundary: No

Date Created: 04/18/98

Depth of Water: 0

Elevation: 0

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.01

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: TUZI0007

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/08/78-07/08/78	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/08/78-07/08/78	1	708.	708.	708.	708.	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)	07/08/78-07/08/78	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	07/08/78-07/08/78	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/08/78-07/08/78	1	0.063	0.063	0.063	0.063	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	07/08/78-07/08/78	1	340.	340.	340.	340.	0.	0.	**	**	**	**
00666 PHOSPHORUS, DISSOLVED (MG/L AS P)	07/08/78-07/08/78	1	0.348	0.348	0.348	0.348	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	07/08/78-07/08/78	1	98.3	98.3	98.3	98.3	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	07/08/78-07/08/78	1	36.3	36.3	36.3	36.3	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS Na)	07/08/78-07/08/78	1	7.36	7.36	7.36	7.36	0.	0.	**	**	**	**
00946 SULFATE, DISSOLVED (MG/L AS SO4)	07/08/78-07/08/78	1	31.	31.	31.	31.	0.	0.	**	**	**	**
01000 ARSENIC, DISSOLVED (UG/L AS AS)	07/08/78-07/08/78	1	150.	150.	150.	150.	0.	0.	**	**	**	**
01025 CADMIUM, DISSOLVED (UG/L AS CD)	07/08/78-07/08/78	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01040 COPPER, DISSOLVED (UG/L AS CU)	07/08/78-07/08/78	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01046 IRON, DISSOLVED (UG/L AS FE)	07/08/78-07/08/78	1	82.	82.	82.	82.	0.	0.	**	**	**	**
01060 MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/08/78-07/08/78	1	39.	39.	39.	39.	0.	0.	**	**	**	**
01085 VANADIUM, DISSOLVED (UG/L AS V)	07/08/78-07/08/78	1	7.	7.	7.	7.	0.	0.	**	**	**	**
01090 ZINC, DISSOLVED (UG/L AS ZN)	07/08/78-07/08/78	1	33.	33.	33.	33.	0.	0.	**	**	**	**
01106 ALUMINUM, DISSOLVED (UG/L AS AL)	07/08/78-07/08/78	1	78.	78.	78.	78.	0.	0.	**	**	**	**
01130 LITHIUM, DISSOLVED (UG/L AS LI)	07/08/78-07/08/78	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01140 SILICON, DISSOLVED (UG/L AS SI)	07/08/78-07/08/78	1	13600.	13600.	13600.	13600.	0.	0.	**	**	**	**
01150 TITANIUM, DISSOLVED (UG/L AS TI)	07/08/78-07/08/78	1	4.	4.	4.	4.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0007

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
22703 URANIUM, NATURAL, DISSOLVED	07/08/78-07/08/78	1	0.45	0.45	0.45	0.45	0.	0.	**	**	**	**
50760 CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/08/78-07/08/78	1	5000.	5000.	5000.	5000.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0007

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400 PH	Fresh Chronic	9.	1	0	0.00										1	0	0.00
	Other-Lo Lim.	6.5	1	0	0.00										1	0	0.00
00946 SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	1	0	0.00										1	0	0.00
	Fresh Acute	360.	1	0	0.00										1	0	0.00
01000 ARSENIC, DISSOLVED	Drinking Water	50.	1	1	1.00										1	1	1.00
	Fresh Acute	3.9	1	0	0.00										1	0	0.00
01025 CADMIUM, DISSOLVED	Drinking Water	5.	1	0	0.00										1	0	0.00
	Fresh Acute	18.	1	0	0.00										1	0	0.00
01040 COPPER, DISSOLVED	Drinking Water	1300.	1	0	0.00										1	0	0.00
	Fresh Acute	120.	1	0	0.00										1	0	0.00
01090 ZINC, DISSOLVED	Drinking Water	5000.	1	0	0.00										1	0	0.00
	Fresh Acute	20.	1	0	0.00										1	0	0.00
22703 URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00										1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0008

NPS Station ID: TUZI0008
 Location: A-16-03 28DDB
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 15060202
 Major Basin:
 Minor Basin:
 RF1 Index: 15060202
 RF3 Index: 15060202087100.00
 Description:

LAT/LON: 34.749448/-112.028893

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 5.77

Agency: 112WRD
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): 344458112014401
 Within Park Boundary: No

Date Created: 04/14/78

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 22.70
 Distance from RF3: 0.09

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: TUZI0008

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/13/73-02/13/73	1	476.	476.	476.	476.	0.	0.	**	**	**
00400	PH (STANDARD UNITS)	02/13/73-02/13/73	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	02/13/73-02/13/73	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/13/73-02/13/73	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	02/13/73-02/13/73	1	3.	3.	3.	3.	0.	0.	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	02/13/73-02/13/73	1	240.	240.	240.	240.	0.	0.	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	02/13/73-02/13/73	1	293.	293.	293.	293.	0.	0.	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	02/13/73-02/13/73	1	0.	0.	0.	0.	0.	0.	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CaCO3)	02/13/73-02/13/73	1	256.	256.	256.	256.	0.	0.	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CaCO3)	02/13/73-02/13/73	1	16.	16.	16.	16.	0.	0.	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS Ca)	02/13/73-02/13/73	1	64.	64.	64.	64.	0.	0.	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS Mg)	02/13/73-02/13/73	1	23.	23.	23.	23.	0.	0.	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS Na)	02/13/73-02/13/73	1	14.	14.	14.	14.	0.	0.	**	**	**
00931	SODIUM ADSORPTION RATIO	02/13/73-02/13/73	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**
00940	CHLORIDE, TOTAL IN WATER MG/L	02/13/73-02/13/73	1	26.	26.	26.	26.	0.	0.	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	02/13/73-02/13/73	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	02/13/73-02/13/73	1	0.15	0.15	0.15	0.15	0.	0.	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	02/13/73-02/13/73	1	10.	10.	10.	10.	0.	0.	**	**	**
01027	CADMIUM, TOTAL (UG/L AS Cd)	02/13/73-02/13/73	1 ##	10.	10.	10.	10.	0.	0.	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS Cr)	02/13/73-02/13/73	1 ##	10.	10.	10.	10.	0.	0.	**	**	**
01042	COPPER, TOTAL (UG/L AS Cu)	02/13/73-02/13/73	1 ##	25.	25.	25.	25.	0.	0.	**	**	**
01045	IRON, TOTAL (UG/L AS Fe)	02/13/73-02/13/73	1 ##	25.	25.	25.	25.	0.	0.	**	**	**
01051	LEAD, TOTAL (UG/L AS Pb)	02/13/73-02/13/73	1 ##	25.	25.	25.	25.	0.	0.	**	**	**
01077	SILVER, TOTAL (UG/L AS Ag)	02/13/73-02/13/73	1 ##	10.	10.	10.	10.	0.	0.	**	**	**
01092	ZINC, TOTAL (UG/L AS Zn)	02/13/73-02/13/73	1 ##	25.	25.	25.	25.	0.	0.	**	**	**
01147	SELENIUM, TOTAL (UG/L AS Se)	02/13/73-02/13/73	1 ##	5.	5.	5.	5.	0.	0.	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	02/13/73-02/13/73	1	308.	308.	308.	308.	0.	0.	**	**	**
71850	NITRATE NITROGEN, TOTAL (MG/L AS NO3)	02/13/73-02/13/73	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**
71900	MERCURY, TOTAL (UG/L AS Hg)	02/13/73-02/13/73	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0008

Parameter	Std. Type	Std. Value	Total		Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
			Obs	Standard		Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400 PH	Fresh Chronic	9.	1	0	0.00				1	0	0.00						
	Other-Lo Lim.	6.5	1	0	0.00				1	0	0.00						
00940 CHLORIDE, TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
	Drinking Water	250.	1	0	0.00				1	0	0.00						
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00				1	0	0.00						
00950 FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00				1	0	0.00						
01002 ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00				1	0	0.00						
	Drinking Water	50.	1	0	0.00				1	0	0.00						
01027 CADMIUM, TOTAL	Fresh Acute	3.9	0 &	0	0.00												
	Drinking Water	5.	0 &	0	0.00												
01034 CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00				1	0	0.00						
01042 COPPER, TOTAL	Fresh Acute	18.	0 &	0	0.00												
	Drinking Water	1300.	1	0	0.00				1	0	0.00						
01051 LEAD, TOTAL	Fresh Acute	82.	1	0	0.00				1	0	0.00						
	Drinking Water	15.	0 &	0	0.00												
01077 SILVER, TOTAL	Fresh Acute	4.1	0 &	0	0.00												
	Drinking Water	100.	1	0	0.00				1	0	0.00						
01092 ZINC, TOTAL	Fresh Acute	120.	1	0	0.00				1	0	0.00						
	Drinking Water	5000.	1	0	0.00				1	0	0.00						
01147 SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00				1	0	0.00						
	Drinking Water	50.	1	0	0.00				1	0	0.00						
71850 NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	1	0	0.00				1	0	0.00						
71900 MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00				1	0	0.00						
	Drinking Water	2.	1	0	0.00				1	0	0.00						

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0009

NPS Station ID: TUZI0009 LAT/LON: 34.749726/-112.017504

Location: VERDE RIVER AT DEAD HORSE RANCH RD CROSSING

Station Type: /TYPA/AMBNT/STREAM

RMI-Indexes:

RMI-Miles:

HUC: 15060202

Major Basin: COLORADO RIVER

Minor Basin: SALT-GILA/VERDE RIVER

RF1 Index: 15060202025

RF3 Index: 15060202002521.56

Description:

ELEVATION 3280 FEET MSL. T16N R03E SEC 27 cdb. "COTTONWOOD" 7.5 MINUTE QUAD MAP. SITE IS LOCATED ON THE UPSTREAM SIDE OF THE DEAD HORSE RANCH STATE PARK ROAD CROSSING (FORD) ON THE VERDE RIVER. THIS ROAD HEADS NORTH FROM MAIN STREET IN CLARKDALE, ARIZONA. REFERENCE FILE WQMS-175.100.290.

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 10.600

RF3 Mile Point: 21.87

Agency: 21ARIZ

FIPS State/County: 04025 ARIZONA/YAVAPAI

STORET Station ID(s): VRDH1 /GR-SR-VRDH1 /A16-03-27cdb

Within Park Boundary: No

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.13

Date Created: 06/13/92

On/Off RF1: ON

On/Off RF3:

Parameter Inventory for Station: TUZI0009

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/28/90-09/12/91	16	19.5	18.281	28.	4.	46.799	6.841	6.8	13.	23.75	27.3
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	03/28/90-09/12/91	15	26.	20.733	33.	-10.	133.317	11.546	9.3	17.	30.	15.8
00055 VELOCITY, STREAM FT/SEC	06/20/91-07/24/91	2	0.95	0.95	1.2	0.7	0.125	0.354	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS CFS	06/20/91-07/24/91	2	9.5	9.5	12.	7.	12.5	3.536	**	**	**	**
00064 DEPTH OF STREAM, MEAN (FT)	06/20/91-07/24/91	2	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00094 SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	03/28/90-09/12/91	15	531.	521.8	694.	185.	17232.314	131.272	243.2	500.	595.	669.4
00300 OXYGEN, DISSOLVED MG/L	03/28/90-09/12/91	12	7.95	8.633	11.	6.3	3.29	1.814	6.51	7.125	10.75	11.
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION %	03/28/90-09/12/91	12	97.	101.308	121.2	88.4	173.032	13.154	88.4	88.625	115.875	120.54
00403 PH, LAB, STANDARD UNITS SU	01/30/91-02/13/91	2	8.35	8.35	8.4	8.3	0.005	0.071	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	01/30/91-02/13/91	2	8.347	8.347	8.4	8.3	0.005	0.071	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/30/91-02/13/91	2	0.004	0.004	0.005	0.004	0.	0.001	**	**	**	**
00406 PH, FIELD, STANDARD UNITS SU	03/28/90-09/12/91	14	8.225	8.165	8.96	7.11	0.215	0.464	7.395	7.848	8.413	8.855
00406 CONVERTED PH, FIELD, STANDARD UNITS	03/28/90-09/12/91	14	8.224	7.9	8.96	7.11	0.291	0.539	7.395	7.847	8.412	8.855
00406 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/28/90-09/12/91	14	0.006	0.013	0.078	0.001	0.	0.02	0.001	0.004	0.014	0.049
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/28/90-09/12/91	16	18.5	205.688	2700.	2.	448221.296	669.493	4.1	11.25	36.5	1034.
70300 RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L	03/28/90-09/12/91	16	334.5	341.938	660.	156.	11753.929	108.416	186.8	314.	370.	494.1
82079 TURBIDITY, LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	03/28/90-09/12/91	17	12.4	48.429	396.	3.6	10367.032	101.819	3.76	6.45	27.	247.2

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0009

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300 OXYGEN, DISSOLVED	Other-Lo Lim.	4.	12	0	0.00	2	0	0.00	3	0	0.00	3	0	0.00	4	0	0.00
00403 PH, LAB	Fresh Chronic	9.	2	0	0.00	1	0	0.00	1	0	0.00						
	Other-Lo Lim.	6.5	2	0	0.00	1	0	0.00	1	0	0.00						
00406 PH, FIELD	Fresh Chronic	9.	14	0	0.00	2	0	0.00	4	0	0.00	4	0	0.00	4	0	0.00
	Other-Lo Lim.	6.5	14	0	0.00	2	0	0.00	4	0	0.00	4	0	0.00	4	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: TUZI0009

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
							Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	17	2	0.12	4	0	0.00	4	0	0.00	4	0	0.00	5	2	0.40

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0010

NPS Station ID: TUZI0010 LAT/LON: 34.749809/-112.004726

Location: VERDE R. BELOW RIO VERDE CIRCLE FORD

Station Type: /TYPA/AMBNT/STREAM

RMI-Indexes:

RMI-Miles:

HUC: 15060202

Major Basin: COLORADO RIVER

Minor Basin: GILA RIVER

RF1 Index: 15060202025

RF3 Index: 15060202048300.00

Description:

T16N, R2E, SEC 27, YAVAPAI COUNTY. INTENSIVE SURVEY NO. 800401 WAS CON- DUCTED IN ASSOCIATION WITH NACOG, STARTING FEB, 1980.

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 9.200

RF3 Mile Point: 0.00

Agency: 21ARIZ

FIPS State/County: 04025 ARIZONA/YAVAPAI

STORET Station ID(s): 700000000022250/VV09

Within Park Boundary: No

Aquifer:

Water Body ID:

ECO Region:

Distance from RF1: 4.30

Distance from RF3: 0.05

Date Created: 06/28/80

On/Off RF1: ON

On/Off RF3:

Parameter Inventory for Station: TUZI0010

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/15/80-12/10/80	10	20.5	18.55	24.	8.	29.192	5.403	8.35	13.75	22.625	23.9
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	04/15/80-12/10/80	10	25.5	23.2	30.	1.	85.067	9.223	2.3	20.	30.	30.
00061 FLOW, STREAM, INSTANTANEOUS CFS	04/15/80-12/10/80	5	43.	49.6	107.	10.	1274.3	35.697	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/21/80-12/10/80	8	4.4	4.15	9.	0.7	7.446	2.729	**	**	**	**
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/21/80-12/10/80	9	650.	650.	720.	600.	1450.	38.079	600.	625.	675.	720.
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/15/80-05/21/80	2	600.5	600.5	725.	476.	31000.5	176.07	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	04/15/80-12/10/80	10	7.7	7.77	9.8	5.6	2.167	1.472	5.65	6.4	9.3	9.78
00400 PH (STANDARD UNITS)	04/15/80-12/10/80	10	7.85	7.842	8.2	7.6	0.046	0.215	7.6	7.615	8.025	8.19
00400 CONVERTED PH (STANDARD UNITS)	04/15/80-12/10/80	10	7.847	7.797	8.2	7.6	0.048	0.22	7.6	7.615	8.025	8.19
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/15/80-12/10/80	10	0.014	0.016	0.025	0.006	0.	0.007	0.006	0.009	0.024	0.025
00403 PH, LAB, STANDARD UNITS SU	04/15/80-05/21/80	2	8.25	8.25	8.3	8.2	0.005	0.071	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	04/15/80-05/21/80	2	8.247	8.247	8.3	8.2	0.005	0.071	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/15/80-05/21/80	2	0.006	0.006	0.006	0.005	0.	0.001	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	04/15/80-05/21/80	2	218.	218.	268.	168.	5000.	70.711	**	**	**	**
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)	04/15/80-05/21/80	2	1.	1.	2.	0.	2.	1.414	**	**	**	**
00500 RESIDUE, TOTAL (MG/L)	04/15/80-05/21/80	2	357.	357.	441.	273.	14112.	118.794	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/15/80-04/15/80	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00600 NITROGEN, TOTAL (MG/L AS N)	06/18/80-12/10/80	8	0.1	0.188	0.5	0.1	0.021	0.146	**	**	**	**
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	04/15/80-05/21/80	2 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/15/80-12/10/80	10 ##	0.05	0.23	1.	0.05	0.101	0.317	0.05	0.05	0.425	0.95
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/18/80-12/10/80	8	0.105	0.128	0.31	0.08	0.006	0.075	**	**	**	**
00650 PHOSPHATE, TOTAL (MG/L AS PO4)	06/18/80-12/10/80	8	0.13	0.12	0.17	0.06	0.002	0.045	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	04/15/80-05/21/80	2	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	04/15/80-05/21/80	2	272.5	272.5	340.	205.	9112.5	95.459	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS Ca)	04/15/80-05/21/80	2	60.5	60.5	70.	51.	180.5	13.435	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)	04/15/80-05/21/80	2	32.	32.	40.	24.	128.	11.314	**	**	**	**
00929 SODIUM, TOTAL (MG/L AS Na)	04/15/80-05/21/80	2	20.	20.	25.	15.	50.	7.071	**	**	**	**
00937 POTASSIUM, TOTAL MG/L AS K)	04/15/80-05/21/80	2	4.	4.	5.	3.	2.	1.414	**	**	**	**
00939 POTASSIUM,TOTAL RECOVERABLE IN WATER AS K MG/L	05/21/80-05/21/80	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	04/15/80-12/10/80	5	16.	14.8	18.	7.	19.7	4.438	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	04/15/80-12/10/80	10	79.5	81.1	115.	54.	397.878	19.947	54.2	64.25	98.75	113.6
00951 FLUORIDE, TOTAL (MG/L AS F)	04/15/80-04/15/80	1	0.18	0.18	0.18	0.18	0.	0.	**	**	**	**
00956 SILICA, TOTAL (MG/L AS SiO2)	05/21/80-05/21/80	1	17.1	17.1	17.1	17.1	0.	0.	**	**	**	**
01000 ARSENIC, DISSOLVED (UG/L AS AS)	04/15/80-04/15/80	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01002 ARSENIC, TOTAL (UG/L AS AS)	04/15/80-05/21/80	2	10.	10.	12.	8.	8.	2.828	**	**	**	**
01027 CADMIUM, TOTAL (UG/L AS CD)	04/15/80-05/21/80	2 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01034	CHROMIUM, TOTAL (UG/L AS CR)	04/15/80-05/21/80	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	04/15/80-04/15/80	1	60.	60.	60.	60.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	04/15/80-05/21/80	2 ##	42.5	42.5	60.	25.	612.5	24.749	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	04/15/80-05/21/80	2	440.	440.	740.	140.	180000.	424.264	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	04/15/80-04/15/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	04/15/80-04/15/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	04/15/80-05/21/80	2 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	04/15/80-05/21/80	2 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/15/80-04/15/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	04/15/80-04/15/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	04/15/80-04/15/80	1	390.	390.	390.	390.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	04/15/80-05/21/80	2	355.	355.	480.	230.	31250.	176.777	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	04/15/80-04/15/80	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	04/15/80-05/21/80	2 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
31613	FECAL COLIFORM, MEMBR FILTER, M-FC AGAR, 44.5C, 24HR	04/15/80-12/10/80	11	105.	180.773	800.	0.5	54241.168	232.897	1.8	7.	194.	716.
31613	LOG FECAL COLIFORM, MEMBR FILTER, M-FC AGAR, 44.5C, 24	04/15/80-12/10/80	11	2.021	1.767	2.903	-0.301	0.872	0.934	-0.072	0.845	2.288	2.838
31613	GM FECAL COLIFORM, MEMBR FILTER, M-FC AGAR, 44.5C, 24H	GEOMETRIC MEAN =			58.471								
31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	04/15/80-04/15/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	04/15/80-04/15/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN =			1.								
31673	FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	04/15/80-12/10/80	11	264.	239.909	500.	2.	30819.691	175.555	8.2	33.	396.	494.6
31673	LOG FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	04/15/80-12/10/80	11	2.422	2.103	2.699	0.301	0.527	0.726	0.545	1.519	2.598	2.694
31673	GM FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	GEOMETRIC MEAN =			126.799								
71850	NITRATE NITROGEN, TOTAL (MG/L AS NO3)	04/15/80-05/21/80	2 ##	0.425	0.425	0.6	0.25	0.061	0.247	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	04/15/80-04/15/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	04/15/80-05/21/80	2 ##	1.375	1.375	2.5	0.25	2.531	1.591	**	**	**	**
82079	TURBIDITY, LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	04/15/80-05/21/80	2	7.	7.	9.	5.	8.	2.828	**	**	**	**
82233	SILICON (SI) TOTAL IN WATER MG/L AS (SIO2)	05/21/80-05/21/80	1	8.	8.	8.	8.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0010

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----			
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	8	0	0.00	3	0	0.00				2	0	0.00	3	0	0.00
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	10	0	0.00	3	0	0.00	1	0	0.00	2	0	0.00	4	0	0.00
00400	PH	Fresh Chronic	9.	10	0	0.00	3	0	0.00	1	0	0.00	2	0	0.00	4	0	0.00
		Other-Lo Lim.	6.5	10	0	0.00	3	0	0.00	1	0	0.00	2	0	0.00	4	0	0.00
00403	PH, LAB	Fresh Chronic	9.	2	0	0.00				1	0	0.00	1	0	0.00			
		Other-Lo Lim.	6.5	2	0	0.00				1	0	0.00	1	0	0.00			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	2	0	0.00				1	0	0.00	1	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	8	0	0.00	3	0	0.00				1	0	0.00	4	0	0.00
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	5	0	0.00	3	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	250.	5	0	0.00	3	0	0.00	1	0	0.00	1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	10	0	0.00	3	0	0.00	1	0	0.00	2	0	0.00	4	0	0.00
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	1	0	0.00				1	0	0.00						
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	1	0	0.00				1	0	0.00						
		Drinking Water	50.	1	0	0.00				1	0	0.00						
01002	ARSENIC, TOTAL	Fresh Acute	360.	2	0	0.00				1	0	0.00	1	0	0.00			
		Drinking Water	50.	2	0	0.00				1	0	0.00	1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	2	0	0.00				1	0	0.00	1	0	0.00			
		Drinking Water	5.	2	0	0.00				1	0	0.00	1	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	2	0	0.00				1	0	0.00	1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	1	1.00				1	1	1.00						
		Drinking Water	1300.	1	0	0.00				1	0	0.00						
01042	COPPER, TOTAL	Fresh Acute	18.	1 &	1	1.00				1	1	1.00						
		Drinking Water	1300.	2	0	0.00				1	0	0.00	1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00				1	0	0.00						
		Drinking Water	15.	0 &	0	0.00												

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: TUZI0010

Parameter	Std. Type	Std. Value	Total			-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
			Obs	Exceed Standard	Prop. Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
01051 LEAD, TOTAL	Fresh Acute	82.	2	0	0.00				1	0	0.00	1	0	0.00			
	Drinking Water	15.	2	0	0.00				1	0	0.00	1	0	0.00			
01077 SILVER, TOTAL	Fresh Acute	4.1	0 &	0	0.00												
	Drinking Water	100.	1	0	0.00				1	0	0.00						
01090 ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00				1	1	1.00						
	Drinking Water	5000.	1	0	0.00				1	0	0.00						
01092 ZINC, TOTAL	Fresh Acute	120.	2	2	1.00				1	1	1.00	1	1	1.00			
	Drinking Water	5000.	2	0	0.00				1	0	0.00	1	0	0.00			
01145 SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00				1	0	0.00						
	Drinking Water	50.	1	0	0.00				1	0	0.00						
01147 SELENIUM, TOTAL	Fresh Acute	20.	2	0	0.00				1	0	0.00	1	0	0.00			
	Drinking Water	50.	2	0	0.00				1	0	0.00	1	0	0.00			
31613 FECAL COLIFORM, MEMBRANE FILTER, AGAR	Other-Hi Lim.	200.	11	2	0.18	3	0	0.00	1	0	0.00	3	0	0.00	4	2	0.50
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	1	0	0.00				1	0	0.00						
71850 NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	2	0	0.00				1	0	0.00	1	0	0.00			
	Fresh Acute	2.4	1	0	0.00				1	0	0.00						
71890 MERCURY, DISSOLVED	Drinking Water	2.	1	0	0.00				1	0	0.00						
	Fresh Acute	2.4	1 &	0	0.00							1	0	0.00			
71900 MERCURY, TOTAL	Drinking Water	2.	1 &	0	0.00							1	0	0.00			
	Other-Hi Lim.	50.	2	0	0.00				1	0	0.00	1	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0011

NPS Station ID: TUZI0011 LAT/LON: 34.749809/-112.021504

Location: VERDE RIVER 0.5KM BELOW DEAD HORSE RANCH FORD

Station Type: /TYPA/AMBNT/STREAM

RMI-Indexes:

RMI-Miles:

HUC: 15060202

Major Basin: COLORADO RIVER

Minor Basin: GILA RIVER

RF1 Index: 15060202

RF3 Index: 15060202002508.69

Description:

T16N, R2E, SEC 27, YAVAPAI COUNTY. INTENSIVE SURVEY NO. 800401 WAS CON- DUCTED IN ASSOCIATION WITH NACOG, STARTING FEB, 1980.

Agency: 21ARIZ

FIPS State/County: 04025 ARIZONA/YAVAPAI

STORET Station ID(s): 700000000022425/VV08

Within Park Boundary: No

Date Created: 06/28/80

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 10.72

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.03

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: TUZI0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/12/80-12/10/80	12	19.9	17.875	24.	8.	33.458	5.784	8.36	11.75	22.375	24.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/12/80-12/10/80	12	23.	20.917	30.	3.	65.674	8.104	6.	14.875	27.75	29.4
00061	FLOW, STREAM, INSTANTANEOUS CFS	02/12/80-12/10/80	8	39.5	47.25	107.	7.	1467.357	38.306	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	02/12/80-12/10/80	11	5.4	7.073	22.	0.8	36.668	6.055	0.86	2.2	10.	20.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	02/12/80-12/10/80	10	615.	624.	700.	510.	2960.	54.406	519.	600.	672.5	698.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/12/80-05/21/80	4	480.	504.25	730.	327.	28268.917	168.134	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	02/12/80-12/10/80	12	8.1	8.158	11.2	6.3	2.306	1.519	6.33	6.725	9.175	10.78
00400	PH (STANDARD UNITS)	02/12/80-12/10/80	12	8.	8.02	8.5	7.74	0.05	0.224	7.758	7.9	8.075	8.47
00400	CONVERTED PH (STANDARD UNITS)	02/12/80-12/10/80	12	8.	7.976	8.5	7.74	0.052	0.229	7.758	7.9	8.075	8.47
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/12/80-12/10/80	12	0.01	0.011	0.018	0.003	0.	0.004	0.003	0.008	0.013	0.017
00403	PH, LAB, STANDARD UNITS SU	02/12/80-05/21/80	4	8.05	7.8	8.3	6.8	0.5	0.707	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	02/12/80-05/21/80	4	7.982	7.336	8.3	6.8	0.787	0.887	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/12/80-05/21/80	4	0.01	0.046	0.158	0.005	0.006	0.075	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	02/12/80-05/21/80	4	187.	185.	254.	112.	3398.667	58.298	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	02/12/80-05/21/80	4	0.	0.	0.	0.	0.	0.	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	02/12/80-05/21/80	4	297.5	317.	455.	218.	10206.	101.025	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/18/80-03/18/80	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00600	NITROGEN, TOTAL (MG/L AS N)	06/18/80-12/10/80	8	0.15	0.175	0.3	0.05	0.013	0.113	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	02/12/80-05/21/80	4 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	02/12/80-12/10/80	12	0.165	0.263	0.75	0.05	0.07	0.265	0.05	0.05	0.518	0.735
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/18/80-12/10/80	8	0.065	0.064	0.12	0.01	0.001	0.038	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	06/18/80-12/10/80	8	0.15	0.124	0.19	0.04	0.003	0.053	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	02/12/80-05/21/80	4	0.045	0.043	0.05	0.03	0.	0.01	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CaCO3)	02/12/80-05/21/80	4	211.5	229.75	340.	156.	6226.917	78.911	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS Ca)	02/12/80-05/21/80	4	51.5	52.	70.	35.	232.667	15.253	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	02/12/80-05/21/80	4	20.	24.	40.	16.	117.333	10.832	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS Na)	02/12/80-05/21/80	4	15.5	17.	24.	13.	27.333	5.228	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	04/15/80-05/21/80	2	18.5	18.5	32.	5.	364.5	19.092	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	02/12/80-12/10/80	7	14.	12.571	18.	6.	20.952	4.577	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	02/12/80-12/10/80	12	80.	80.417	132.	16.	1270.083	35.638	22.6	55.25	112.5	131.1
00951	FLUORIDE, TOTAL (MG/L AS F)	03/18/80-03/18/80	1	0.16	0.16	0.16	0.16	0.	0.	**	**	**	**
00956	SILICA, TOTAL (MG/L AS SiO2)	05/21/80-05/21/80	1	17.1	17.1	17.1	17.1	0.	0.	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	04/15/80-04/15/80	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	02/12/80-05/21/80	4	9.	7.75	11.	2.	16.25	4.031	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	04/15/80-04/15/80	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	02/12/80-05/21/80	4 ##	2.5	4.375	10.	2.5	14.063	3.75	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0011

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01034	CHROMIUM, TOTAL (UG/L AS CR)	02/12/80-05/21/80	4 ##	5.	4.375	5.	2.5	1.563	1.25	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	04/15/80-04/15/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	02/12/80-05/21/80	4 ##	47.5	60.	120.	25.	2050.	45.277	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	02/12/80-05/21/80	4	760.	717.5	1150.	200.	153091.667	391.269	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	04/15/80-04/15/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	04/15/80-04/15/80	1 ##	10.	10.	10.	10.	0.	0.	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	02/12/80-05/21/80	4 ##	10.	25.	70.	10.	900.	30.	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	02/12/80-05/21/80	4 ##	42.5	45.	70.	25.	550.	23.452	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/15/80-04/15/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	03/18/80-03/18/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	04/15/80-04/15/80	1	380.	380.	380.	380.	0.	0.	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	02/12/80-05/21/80	4	415.	392.5	560.	180.	32091.667	179.141	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	04/15/80-04/15/80	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	02/12/80-05/21/80	4 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**
31613	FECAL COLIFORM, MEMBR FILTER, M-FC AGAR, 44.5C, 24HR	04/15/80-12/10/80	11	67.	103.591	260.	0.5	9954.341	99.771	2.2	9.	204.
31613	LOG FECAL COLIFORM, MEMBR FILTER, M-FC AGAR, 44.5C, 24	04/15/80-12/10/80	11	1.826	1.63	2.415	-0.301	0.681	0.825	-0.05	0.954	2.31
31613	GM FECAL COLIFORM, MEMBR FILTER, M-FC AGAR, 44.5C, 24H	GEOMETRIC MEAN =			42.657							
31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	04/15/80-04/15/80	1	0.	0.	0.	0.	0.	0.	**	**	**
31616	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	04/15/80-04/15/80	1	0.	0.	0.	0.	0.	0.	**	**	**
31616	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN =			1.							
31673	FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	05/21/80-12/10/80	10	307.	328.2	670.	25.	60761.289	246.498	25.	78.25	622.
31673	LOG FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	05/21/80-12/10/80	10	2.487	2.31	2.826	1.398	0.293	0.542	1.398	1.836	2.794
31673	GM FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	GEOMETRIC MEAN =			204.308							
71850	NITRATE NITROGEN, TOTAL (MG/L AS NO3)	02/12/80-05/21/80	4 ##	1.875	10.5	38.	0.25	338.458	18.397	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	04/15/80-04/15/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	02/12/80-05/21/80	4 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**
82079	TURBIDITY, LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	02/12/80-05/21/80	4	9.	11.25	22.	5.	55.583	7.455	**	**	**
82233	SILICON (SI) TOTAL IN WATER MG/L AS (SIO2)	05/21/80-05/21/80	1	8.	8.	8.	8.	0.	0.	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0011

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----			
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	11	0	0.00	3	0	0.00	3	0	0.00	2	0	0.00	3	0	0.00
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	12	0	0.00	3	0	0.00	3	0	0.00	2	0	0.00	4	0	0.00
00400	PH	Fresh Chronic	9.	12	0	0.00	3	0	0.00	3	0	0.00	2	0	0.00	4	0	0.00
00403	PH, LAB	Other-Lo Lim.	6.5	12	0	0.00	3	0	0.00	3	0	0.00	2	0	0.00	4	0	0.00
		Fresh Chronic	9.	4	0	0.00				3	0	0.00	1	0	0.00			
		Other-Lo Lim.	6.5	4	0	0.00				3	0	0.00	1	0	0.00			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	4	0	0.00			3	0	0.00	1	0	0.00				
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	8	0	0.00	3	0	0.00			1	0	0.00	4	0	0.00	
00940	CHLORIDE, TOTAL IN WATER	Fresh Acute	860.	7	0	0.00	3	0	0.00	3	0	0.00	1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	7	0	0.00	3	0	0.00	3	0	0.00	1	0	0.00			
		Drinking Water	250.	12	0	0.00	3	0	0.00	3	0	0.00	2	0	0.00	4	0	0.00
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	1	0	0.00			1	0	0.00							
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	1	0	0.00			1	0	0.00							
01002	ARSENIC, TOTAL	Drinking Water	50.	1	0	0.00			1	0	0.00							
		Fresh Acute	360.	4	0	0.00	3	0	0.00	3	0	0.00	1	0	0.00			
		Drinking Water	50.	4	0	0.00	3	0	0.00	3	0	0.00	1	0	0.00			
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0	0.00	1	0	0.00	1	0	0.00						
01027	CADMIUM, TOTAL	Drinking Water	5.	1	0	0.00	1	0	0.00	1	0	0.00						
		Fresh Acute	3.9	3 &	0	0.00	3	0	0.00	3	0	0.00						
		Drinking Water	5.	3 &	0	0.00	3	0	0.00	3	0	0.00						
01034	CHROMIUM, TOTAL	Drinking Water	100.	4	0	0.00			3	0	0.00	1	0	0.00				
01040	COPPER, DISSOLVED	Fresh Acute	18.	0 &	0	0.00												
01042	COPPER, TOTAL	Drinking Water	1300.	1	0	0.00			1	0	0.00							
		Fresh Acute	18.	2 &	2	1.00			2	2	1.00							
		Drinking Water	1300.	4	0	0.00			3	0	0.00	1	0	0.00				

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: TUZI0011

Parameter	Std. Type	Std. Value	Total		Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
			Obs	Standard		Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
01049 LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00				1	0	0.00						
	Drinking Water	15.	1	0	0.00				1	0	0.00						
01051 LEAD, TOTAL	Fresh Acute	82.	4	0	0.00				3	0	0.00	1	0	0.00			
	Drinking Water	15.	4	1	0.25				3	0	0.00	1	1	1.00			
01077 SILVER, TOTAL	Fresh Acute	4.1	0 &	0	0.00												
	Drinking Water	100.	1	0	0.00				1	0	0.00						
01090 ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00				1	1	1.00						
	Drinking Water	5000.	1	0	0.00				1	0	0.00						
01092 ZINC, TOTAL	Fresh Acute	120.	4	4	1.00				3	3	1.00	1	1	1.00			
	Drinking Water	5000.	4	0	0.00				3	0	0.00	1	0	0.00			
01145 SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00				1	0	0.00						
	Drinking Water	50.	1	0	0.00				1	0	0.00						
01147 SELENIUM, TOTAL	Fresh Acute	20.	4	0	0.00				3	0	0.00	1	0	0.00			
	Drinking Water	50.	4	0	0.00				3	0	0.00	1	0	0.00			
31613 FECAL COLIFORM, MEMBRANE FILTER, AGAR	Other-Hi Lim.	200.	11	4	0.36	3	1	0.33	1	0	0.00	3	0	0.00	4	3	0.75
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	1	0	0.00				1	0	0.00						
71850 NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	4	0	0.00				3	0	0.00	1	0	0.00			
71890 MERCURY, DISSOLVED	Fresh Acute	2.4	1	0	0.00				1	0	0.00						
	Drinking Water	2.	1	0	0.00				1	0	0.00						
71900 MERCURY, TOTAL	Fresh Acute	2.4	4	0	0.00				3	0	0.00	1	0	0.00			
	Drinking Water	2.	4	0	0.00				3	0	0.00	1	0	0.00			
82079 TURBIDITY, LAB	Other-Hi Lim.	50.	4	0	0.00				3	0	0.00	1	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0012

NPS Station ID: TUZI0012
 Location: VERDE RIVER ABOVE COTTONWOOD
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 15060202
 Major Basin: COLORADO RIVER
 Minor Basin: GILA RIVER
 RF1 Index: 15060202025
 RF3 Index: 15060202002510.08
 Description:
 T16N, R2E, SEC.27, YAVAPAI COUNTY, IN COTTONWOOD BEHIND OLD JAIL.
 STARTING FEB, 1980.

LAT/LON: 34.750448/-112.025171

Depth of Water: 0
 Elevation: 0
 RF1 Mile Point: 10.840
 RF3 Mile Point: 10.08

Agency: 21ARIZ
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): 700000000022450/VV07
 Within Park Boundary: No

Date Created: 06/28/80

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 2.50
 Distance from RF3: 0.03

On/Off RF1: ON
 On/Off RF3:

INTENSIVE SURVEY NO. 800401 WAS CONDUCTED IN ASSOCIATION WITH NACOG,

Parameter Inventory for Station: TUZI0012

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/12/80-12/10/80	12	19.	17.575	24.	8.	27.395	5.234	9.05	13.125	22.375	23.7
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/12/80-12/10/80	11	24.	19.818	30.	1.	86.114	9.28	2.7	11.	26.	29.8
00061 FLOW, STREAM, INSTANTANEOUS CFS	02/12/80-12/10/80	6	47.5	58.167	107.	10.	1459.767	38.207	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	02/12/80-12/10/80	11	6.	8.355	35.	0.9	91.081	9.544	0.92	2.	10.	30.4
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	02/12/80-12/10/80	10	650.	648.	760.	500.	5506.667	74.207	510.	607.5	700.	754.
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/12/80-05/21/80	4	487.	508.	730.	328.	28044.667	167.465	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	02/12/80-12/10/80	12	8.6	8.4	10.8	5.7	2.511	1.585	6.03	7.05	9.7	10.68
00400 PH (STANDARD UNITS)	02/12/80-12/10/80	12	8.1	8.084	8.4	7.8	0.029	0.17	7.83	7.97	8.213	8.37
00400 CONVERTED PH (STANDARD UNITS)	02/12/80-12/10/80	12	8.1	8.055	8.4	7.8	0.03	0.173	7.83	7.97	8.212	8.37
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/12/80-12/10/80	12	0.008	0.009	0.016	0.004	0.	0.003	0.004	0.006	0.011	0.015
00403 PH, LAB, STANDARD UNITS SU	02/12/80-05/21/80	4	7.75	7.7	8.5	6.8	0.487	0.698	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	02/12/80-05/21/80	4	7.747	7.307	8.5	6.8	0.693	0.832	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/12/80-05/21/80	4	0.018	0.049	0.158	0.003	0.005	0.073	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	02/12/80-05/21/80	4	181.	182.5	254.	114.	3350.333	57.882	**	**	**	**
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)	02/12/80-05/21/80	4	0.	1.	4.	0.	4.	2.	**	**	**	**
00500 RESIDUE, TOTAL (MG/L)	02/12/80-05/21/80	4	295.	316.	453.	221.	9774.667	98.867	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/18/80-03/18/80	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00600 NITROGEN, TOTAL (MG/L AS N)	06/18/80-12/10/80	8	0.2	0.294	0.9	0.05	0.072	0.268	**	**	**	**
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	02/12/80-05/21/80	4 ##	0.005	0.016	0.05	0.005	0.001	0.023	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	02/12/80-12/10/80	12	0.205	0.292	0.8	0.05	0.069	0.262	0.05	0.063	0.485	0.77
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/18/80-12/10/80	8	0.07	0.09	0.17	0.02	0.003	0.053	**	**	**	**
00650 PHOSPHATE, TOTAL (MG/L AS PO4)	06/18/80-12/10/80	8	0.12	0.12	0.19	0.06	0.002	0.043	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	02/12/80-05/21/80	4	0.04	0.04	0.05	0.03	0.	0.008	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	02/12/80-05/21/80	4	213.	229.75	341.	152.	6360.25	79.751	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS Ca)	02/12/80-05/21/80	4	57.5	73.	142.	35.	2332.667	48.298	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)	02/12/80-05/21/80	4	20.	23.75	40.	15.	125.583	11.206	**	**	**	**
00929 SODIUM, TOTAL (MG/L AS Na)	02/12/80-05/21/80	4	15.5	17.	23.	14.	18.	4.243	**	**	**	**
00937 POTASSIUM, TOTAL MG/L AS K)	04/15/80-05/21/80	2	3.5	3.5	5.	2.	4.5	2.121	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	02/12/80-12/10/80	7	15.	13.143	18.	6.	23.476	4.845	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	02/12/80-12/10/80	12	89.5	87.583	132.	29.	1081.72	32.89	31.7	69.25	119.5	129.
00951 FLUORIDE, TOTAL (MG/L AS F)	02/12/80-03/18/80	2	0.16	0.16	0.16	0.16	0.	0.	**	**	**	**
00956 SILICA, TOTAL (MG/L AS SiO2)	05/21/80-05/21/80	1	17.1	17.1	17.1	17.1	0.	0.	**	**	**	**
01000 ARSENIC, DISSOLVED (UG/L AS AS)	04/15/80-04/15/80	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0012

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th	
01002	ARSENIC, TOTAL (UG/L AS AS)	02/12/80-05/21/80	4	8.	7.5	12.	2.	19.667	4.435	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	04/15/80-04/15/80	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	02/12/80-05/21/80	4 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	02/12/80-05/21/80	4 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	04/15/80-04/15/80	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	02/12/80-05/21/80	4 ##	52.5	57.5	100.	25.	1475.	38.406	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	02/12/80-05/21/80	4	725.	632.5	900.	180.	101558.333	318.682	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	04/15/80-04/15/80	1	130.	130.	130.	130.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	04/15/80-04/15/80	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	02/12/80-05/21/80	4 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	02/12/80-05/21/80	4	65.	76.25	150.	25.	2789.583	52.817	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/15/80-04/15/80	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	02/12/80-03/18/80	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	04/15/80-04/15/80	1	480.	480.	480.	480.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	02/12/80-05/21/80	4	465.	480.	660.	330.	24466.667	156.418	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	04/15/80-04/15/80	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	02/12/80-05/21/80	4 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
31613	FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24HR	04/15/80-12/10/80	11	131.	167.318	470.	0.5	23990.914	154.89	1.8	7.	224.	453.6
31613	LOG FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24	04/15/80-12/10/80	11	2.117	1.791	2.672	-0.301	0.865	0.93	-0.072	0.845	2.35	2.655
31613	GM FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24H	GEOMETRIC MEAN =			61.735								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/15/80-04/15/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/15/80-04/15/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			1.								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	04/15/80-12/10/80	11	233.	311.909	905.	21.	92153.091	303.567	21.	41.	566.	869.4
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	04/15/80-12/10/80	11	2.367	2.219	2.957	1.322	0.346	0.589	1.322	1.613	2.753	2.938
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			165.554								
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	02/12/80-05/21/80	4 ##	0.625	0.625	1.	0.25	0.188	0.433	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	04/15/80-04/15/80	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	02/12/80-05/21/80	4 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	02/12/80-05/21/80	4	9.5	15.	35.	6.	180.667	13.441	**	**	**	**
82233	SILICON (SI) TOTAL IN WATER MG/L AS (SIO2)	05/21/80-05/21/80	1	8.	8.	8.	8.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0012

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----			
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	11	0	0.00	3	0	0.00	3	0	0.00	2	0	0.00	3	0	0.00
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	12	0	0.00	3	0	0.00	3	0	0.00	2	0	0.00	4	0	0.00
00400	PH	Fresh Chronic	9.	12	0	0.00	3	0	0.00	3	0	0.00	2	0	0.00	4	0	0.00
00403	PH, LAB	Other-Lo Lim.	6.5	12	0	0.00	3	0	0.00	3	0	0.00	2	0	0.00	4	0	0.00
		Fresh Chronic	9.	4	0	0.00				3	0	0.00	1	0	0.00			
		Other-Lo Lim.	6.5	4	0	0.00				3	0	0.00	1	0	0.00			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	4	0	0.00				3	0	0.00	1	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	8	0	0.00	3	0	0.00			1	0	0.00	4	0	0.00	
00940	CHLORIDE, TOTAL IN WATER	Fresh Acute	860.	7	0	0.00	3	0	0.00	3	0	0.00	1	0	0.00			
		Drinking Water	250.	7	0	0.00	3	0	0.00	3	0	0.00	1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	12	0	0.00	3	0	0.00	3	0	0.00	2	0	0.00	4	0	0.00
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	2	0	0.00				2	0	0.00						
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	1	0	0.00				1	0	0.00						
		Drinking Water	50.	1	0	0.00				1	0	0.00						
01002	ARSENIC, TOTAL	Fresh Acute	360.	4	0	0.00				3	0	0.00	1	0	0.00			
		Drinking Water	50.	4	0	0.00				3	0	0.00	1	0	0.00			
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	1	1.00				1	1	1.00						
		Drinking Water	5.	1	1	1.00				1	1	1.00						
01027	CADMIUM, TOTAL	Fresh Acute	3.9	4	0	0.00				3	0	0.00	1	0	0.00			
		Drinking Water	5.	4	0	0.00				3	0	0.00	1	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	4	0	0.00				3	0	0.00	1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00				1	0	0.00						
		Drinking Water	1300.	1	0	0.00				1	0	0.00						

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: TUZI0012

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
01042	COPPER, TOTAL																
	Fresh Acute	18.	2	2	1.00				2	2	1.00						
	Drinking Water	1300.	4	0	0.00				3	0	0.00	1	0	0.00			
01049	LEAD, DISSOLVED																
	Fresh Acute	82.	1	0	0.00				1	0	0.00						
	Drinking Water	15.	1	0	0.00				1	0	0.00						
01051	LEAD, TOTAL																
	Fresh Acute	82.	4	0	0.00				3	0	0.00	1	0	0.00			
	Drinking Water	15.	4	0	0.00				3	0	0.00	1	0	0.00			
01077	SILVER, TOTAL																
	Fresh Acute	4.1	0	0	0.00												
	Drinking Water	100.	2	0	0.00				2	0	0.00						
01090	ZINC, DISSOLVED																
	Fresh Acute	120.	1	1	1.00				1	1	1.00						
	Drinking Water	5000.	1	0	0.00				1	0	0.00						
01092	ZINC, TOTAL																
	Fresh Acute	120.	4	4	1.00				3	3	1.00	1	1	1.00			
	Drinking Water	5000.	4	0	0.00				3	0	0.00	1	0	0.00			
01145	SELENIUM, DISSOLVED																
	Fresh Acute	20.	1	0	0.00				1	0	0.00						
	Drinking Water	50.	1	0	0.00				1	0	0.00						
01147	SELENIUM, TOTAL																
	Fresh Acute	20.	4	0	0.00				3	0	0.00	1	0	0.00			
	Drinking Water	50.	4	0	0.00				3	0	0.00	1	0	0.00			
31613	FECAL COLIFORM, MEMBRANE FILTER, AGAR																
	Other-Hi Lim.	200.	11	5	0.45	3	2	0.67	1	0	0.00	3	0	0.00	4	3	0.75
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH																
	Other-Hi Lim.	200.	1	0	0.00				1	0	0.00						
71850	NITRATE NITROGEN, TOTAL (AS NO3)																
	Drinking Water	44.	4	0	0.00				3	0	0.00	1	0	0.00			
71890	MERCURY, DISSOLVED																
	Fresh Acute	2.4	1	0	0.00				1	0	0.00						
	Drinking Water	2.	1	0	0.00				1	0	0.00						
71900	MERCURY, TOTAL																
	Fresh Acute	2.4	4	0	0.00				3	0	0.00	1	0	0.00			
	Drinking Water	2.	4	0	0.00				3	0	0.00	1	0	0.00			
82079	TURBIDITY, LAB																
	Other-Hi Lim.	50.	4	0	0.00				3	0	0.00	1	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0013

NPS Station ID: TUZI0013
 Location: VERDE RIVER AT COTTONWOOD
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 15060202
 Major Basin:
 Minor Basin:
 RF1 Index: 15060202
 RF3 Index: 15060202002000.00
 Description:

LAT/LON: 34.751392/-112.018059

Depth of Water: 0
 Elevation: 3282

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.00

Agency: 11TOX09
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): 000268
 Within Park Boundary: No

Date Created: 11/19/88

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.60
 Distance from RF3: 0.01

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: TUZI0013

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01002 ARSENIC, TOTAL (UG/L AS AS)	07/28/87-07/28/87	1	22.	22.	22.	22.	0.	0.	**	**	**	**
01003 ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	07/27/87-07/27/87	1	20.3	20.3	20.3	20.3	0.	0.	**	**	**	**
01012 BERYLLIUM, TOTAL (UG/L AS BE)	07/28/87-07/28/87	1 ##	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
01013 BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	07/27/87-07/27/87	1 ##	0.29	0.29	0.29	0.29	0.	0.	**	**	**	**
01026 CADMIUM, SUSPENDED (UG/L AS CD)	07/27/87-07/27/87	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01029 CHROMIUM, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	07/27/87-07/27/87	1	19.7	19.7	19.7	19.7	0.	0.	**	**	**	**
01042 COPPER, TOTAL (UG/L AS CU)	07/28/87-07/28/87	1 ##	4.5	4.5	4.5	4.5	0.	0.	**	**	**	**
01043 COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	07/27/87-07/27/87	1	26.1	26.1	26.1	26.1	0.	0.	**	**	**	**
01044 IRON, SUSPENDED (UG/L AS FE)	07/27/87-07/27/87	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
01051 LEAD, TOTAL (UG/L AS PB)	07/28/87-07/28/87	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01052 LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	07/27/87-07/27/87	1	9.8	9.8	9.8	9.8	0.	0.	**	**	**	**
01059 THALLIUM, TOTAL (UG/L AS TL)	07/28/87-07/28/87	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01067 NICKEL, TOTAL (UG/L AS NI)	07/28/87-07/28/87	1 ##	8.	8.	8.	8.	0.	0.	**	**	**	**
01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	07/27/87-07/27/87	1	29.7	29.7	29.7	29.7	0.	0.	**	**	**	**
01069 NICKEL, TOTAL IN FISH OR ANIMALS-WET WEIGHT MG/KG	07/27/87-07/27/87	1 ##	1.55	1.55	1.55	1.55	0.	0.	**	**	**	**
01073 THALLIUM, TISSUE, WET WEIGHT, MG/KG	07/27/87-07/27/87	1 ##	0.19	0.19	0.19	0.19	0.	0.	**	**	**	**
01077 SILVER, TOTAL (UG/L AS AG)	07/28/87-07/28/87	1 ##	3.5	3.5	3.5	3.5	0.	0.	**	**	**	**
01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	07/27/87-07/27/87	1 ##	1.7	1.7	1.7	1.7	0.	0.	**	**	**	**
01093 ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	07/27/87-07/27/87	1	67.7	67.7	67.7	67.7	0.	0.	**	**	**	**
01097 ANTIMONY, TOTAL (UG/L AS SB)	07/28/87-07/28/87	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01098 ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	07/27/87-07/27/87	1 ##	0.475	0.475	0.475	0.475	0.	0.	**	**	**	**
01099 ANTIMONY, TISSUE, WET WEIGHT, MG/KG	07/27/87-07/27/87	1 ##	0.19	0.19	0.19	0.19	0.	0.	**	**	**	**
01148 SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	07/27/87-07/27/87	1 ##	0.475	0.475	0.475	0.475	0.	0.	**	**	**	**
01149 SELENIUM, TOTAL IN FISH OR ANIMALS WET WGT MG/KG	07/27/87-07/27/87	1 ##	0.19	0.19	0.19	0.19	0.	0.	**	**	**	**
34200 ACENAPHTHYLENE TOTWUG/L	07/27/87-07/27/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34203 ACENAPHTHYLENE DRY WGTBOTUG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34204 ACENAPHTHYLENE WET WGT TISMG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34205 ACENAPHTHENE TOTWUG/L	07/27/87-07/27/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34208 ACENAPHTHENE DRY WGTBOTUG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34209 ACENAPHTHENE WET WGT TISMG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34223 ANTHRACENE DRY WGTBOTUG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34224 ANTHRACENE WET WGT TISMG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34230 BENZO(B)FLUORANTHENE, WHOLE WATER, UG/L	07/27/87-07/27/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34233 BENZO(B)FLUORANTHENE, SEDIMENTS, DRY WGT, UG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34234 BENZO(B)FLUORANTHENE, TISSUE, WET WGT, MG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34242 BENZO(K)FLUORANTHENE, TOTAL, WATER UG/L	07/27/87-07/27/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34245 BENZO(K)FLUORANTHENE, DRY WT, SEDIMENT UG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34246 BENZO(K)FLUORANTHENE, WET WT, TISSUE MG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0013

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
34247	BENZO-A-PYRENE TOTWUG/L	07/27/87-07/27/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34250	BENZO-A-PYRENE DRY WGTBOTUG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34251	BENZO-A-PYRENE WET WGTTISMKG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34252	BERYLLIUM WET WGTTISMKG/KG	07/27/87-07/27/87	1 ##	0.115	0.115	0.115	0.115	0.	0.	**	**	**	**
34257	B-BHC-BETA DRY WGTBOTUG/KG	07/28/87-07/28/87	1 ##	9.8	9.8	9.8	9.8	0.	0.	**	**	**	**
34258	B-BHC-BETA WET WGTTISMKG/KG	07/28/87-07/28/87	1 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
34259	DELTA BENZENE HEXACHLORIDE TOTWUG/L	07/28/87-07/28/87	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
34262	DELTA BENZENE HEXACHLORIDE DRY WGTBOTUG/KG	07/28/87-07/28/87	1 ##	9.8	9.8	9.8	9.8	0.	0.	**	**	**	**
34263	DELTA BENZENE HEXACHLORIDE WET WGTTISMKG/KG	07/28/87-07/28/87	1 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
34273	BIS (2-CHLOROETHYL) ETHER TOTWUG/L	07/27/87-07/27/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34276	BIS (2-CHLOROETHYL) ETHER DRY WGTBOTUG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34277	BIS (2-CHLOROETHYL) ETHER WET WGTTISMKG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34278	BIS (2-CHLOROETHOXY) METHANE TOTWUG/L	07/27/87-07/27/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34281	BIS (2-CHLOROETHOXY) METHANE DRY WGTBOTUG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34282	BIS (2-CHLOROETHOXY) METHANE WET WGTTISMKG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34286	BIS (2-CHLOROISOPROPYL) ETHER DRY WGTBOTUG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34287	BIS (2-CHLOROISOPROPYL) ETHER WET WGTTISMKG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34292	N-BUTYL BENZYL PHTHALATE,WHOLE WATER,UG/L	07/27/87-07/27/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34293	N-BUTYL BENZYL PHTHALATE,DISSOLVED,UG/L	07/27/87-07/27/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34295	N-BUTYL BENZYL PHTHALATE,SEDIMENTS,DRY WGT,UG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34296	N-BUTYL BENZYL PHTHALATE,TISSUE,WET WGT,MG/KG	07/27/87-07/27/87	1	13500.	13500.	13500.	13500.	0.	0.	**	**	**	**
34320	CHRYSENE TOTWUG/L	07/27/87-07/27/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34323	CHRYSENE DRY WGTBOTUG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34324	CHRYSENE WET WGTTISMKG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34336	DIETHYL PHTHALATE TOTWUG/L	07/27/87-07/27/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34339	DIETHYL PHTHALATE DRY WGTBOTUG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34340	DIETHYL PHTHALATE WET WGTTISMKG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34341	DIMETHYL PHTHALATE TOTWUG/L	07/27/87-07/27/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34344	DIMETHYL PHTHALATE DRY WGTBOTUG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34345	DIMETHYL PHTHALATE WET WGTTISMKG/KG	07/27/87-07/27/87	1 ##	800.	800.	800.	800.	0.	0.	**	**	**	**
34351	ENDOSULFAN SULFATE TOTWUG/L	07/28/87-07/28/87	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
34354	ENDOSULFAN SULFATE DRY WGTBOTUG/KG	07/28/87-07/28/87	1 ##	19.6	19.6	19.6	19.6	0.	0.	**	**	**	**
34355	ENDOSULFAN SULFATE WET WGTTISMKG/KG	07/28/87-07/28/87	1 ##	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
34356	ENDOSULFAN, BETA TOTWUG/L	07/28/87-07/28/87	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
34359	ENDOSULFAN, BETA DRY WGTBOTUG/KG	07/28/87-07/28/87	1 ##	19.6	19.6	19.6	19.6	0.	0.	**	**	**	**
34361	ENDOSULFAN, ALPHA TOTWUG/L	07/27/87-07/28/87	2 ##	2.513	2.513	5.	0.025	12.375	3.518	**	**	**	**
34364	ENDOSULFAN, ALPHA DRY WGTBOTUG/KG	07/28/87-07/28/87	1 ##	9.8	9.8	9.8	9.8	0.	0.	**	**	**	**
34365	ENDOSULFAN, ALPHA WET WGTTISMKG/KG	07/28/87-07/28/87	1 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
34376	FLUORANTHENE TOTWUG/L	07/27/87-07/27/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34379	FLUORANTHENE DRY WGTBOTUG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34380	FLUORANTHENE WET WGTTISMKG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34384	FLUORENE DRY WGTBOTUG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34385	FLUORENE WET WGTTISMKG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34386	HEXACHLOROCYCLOPENTADIENE TOTWUG/L	07/27/87-07/27/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34389	HEXACHLOROCYCLOPENTADIENE DRY WGTBOTUG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34390	HEXACHLOROCYCLOPENTADIENE WET WGTTISMKG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34391	HEXACHLOROBUTADIENE TOTWUG/L	07/27/87-07/27/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34395	HEXACHLOROBUTADIENE WET WGTTISMKG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34396	HEXACHLOROETHANE TOTWUG/L	07/27/87-07/27/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34399	HEXACHLOROETHANE DRY WGTBOTUG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34400	HEXACHLOROETHANE WET WGTTISMKG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34403	INDENO (1,2,3-CD) PYRENE TOTWUG/L	07/27/87-07/27/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34406	INDENO (1,2,3-CD) PYRENE DRY WGTBOTUG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34407	INDENO (1,2,3-CD) PYRENE WET WGTTISMKG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34408	ISOPHORONE TOTWUG/L	07/27/87-07/27/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34411	ISOPHORONE DRY WGTBOTUG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34412	ISOPHORONE WET WGTTISMKG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34420	METHYL CHLORIDE SUSPUG/L	07/27/87-07/27/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34428	N-NITROSODI-N-PROPYLAMINE TOTWUG/L	07/27/87-07/27/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34431	N-NITROSODI-N-PROPYLAMINE DRY WGTBOTUG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34432	N-NITROSODI-N-PROPYLAMINE WET WGTTISMKG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34433	N-NITROSODIPHENYLAMINE TOTWUG/L	07/27/87-07/27/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34436	N-NITROSODIPHENYLAMINE DRY WGTBOTUG/KG	07/27/87-07/27/87	1 ##	800.	800.	800.	800.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0013

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th	
34437	N-NITROSODIPHENYLAMINE WET WGT TISM/G/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34445	NAPHTHALENE DRY WGT BOTUG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34446	NAPHTHALENE WET WGT TISM/G/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34447	NITROBENZENE TOTWUG/L	07/27/87-07/27/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34450	NITROBENZENE DRY WGT BOTUG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34451	NITROBENZENE WET WGT TISM/G/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34461	PHENANTHRENE TOTWUG/L	07/27/87-07/27/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34464	PHENANTHRENE DRY WGT BOTUG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34465	PHENANTHRENE WET WGT TISM/G/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34468	PHENOL WET WGT TISM/G/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34469	PYRENE TOTWUG/L	07/27/87-07/27/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34472	PYRENE DRY WGT BOTUG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34473	PYRENE WET WGT TISM/G/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34474	SILVER WET WGT TISM/G/KG	07/27/87-07/27/87	1 ##	0.65	0.65	0.65	0.65	0.	0.	**	**	**	**
34480	THALLIUM DRY WGT BOTMG/KG	07/27/87-07/27/87	1 ##	0.475	0.475	0.475	0.475	0.	0.	**	**	**	**
34521	BENZO(GHI)PERYLENE1,12-BENZOPERYLENE TOTWUG/L	07/27/87-07/27/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34524	BENZO(GHI)PERYLENE1,12-BENZOPERYLENDRY WGT BOTUG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34525	BENZO(GHI)PERYLENE1,12-BENZOPERYLENWET WGT TISM/G/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34526	BENZO(A)ANTHRACENE1,2-BENZANTHRACENE TOTWUG/L	07/27/87-07/27/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34529	BENZO(A)ANTHRACENE1,2-BENZANTHRACENDRY WGT BOTUG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34530	BENZO(A)ANTHRACENE1,2-BENZANTHRACENWET WGT TISM/G/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34536	1,2-DICHLOROBENZENE TOTWUG/L	07/27/87-07/27/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34539	1,2-DICHLOROBENZENE DRY WGT BOTUG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34540	1,2-DICHLOROBENZENE WET WGT TISM/G/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34551	1,2,4-TRICHLOROBENZENE TOTWUG/L	07/27/87-07/27/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34554	1,2,4-TRICHLOROBENZENE DRY WGT BOTUG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34555	1,2,4-TRICHLOROBENZENE WET WGT TISM/G/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34556	1,2,5,6-DIBENZANTHRACENE TOTWUG/L	07/27/87-07/27/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34559	1,2,5,6-DIBENZANTHRACENE DRY WGT BOTUG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34566	1,3-DICHLOROBENZENE TOTWUG/L	07/27/87-07/27/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34569	1,3-DICHLOROBENZENE DRY WGT BOTUG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34570	1,3-DICHLOROBENZENE WET WGT TISM/G/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34571	1,4-DICHLOROBENZENE TOTWUG/L	07/27/87-07/27/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34574	1,4-DICHLOROBENZENE DRY WGT BOTUG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34575	1,4-DICHLOROBENZENE WET WGT TISM/G/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34581	2-CHLORONAPHTHALENE TOTWUG/L	07/27/87-07/27/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34584	2-CHLORONAPHTHALENE DRY WGT BOTUG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34585	2-CHLORONAPHTHALENE WET WGT TISM/G/KG	07/27/87-07/27/87	1 ##	800.	800.	800.	800.	0.	0.	**	**	**	**
34586	2-CHLOROPHENOL TOTWUG/L	07/27/87-07/27/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34589	2-CHLOROPHENOL DRY WGT BOTUG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34590	2-CHLOROPHENOL WET WGT TISM/G/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34591	2-NITROPHENOL TOTWUG/L	07/27/87-07/27/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34594	2-NITROPHENOL DRY WGT BOTUG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34595	2-NITROPHENOL WET WGT TISM/G/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34596	DI-N-OCTYL PHTHALATE TOTWUG/L	07/27/87-07/27/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34599	DI-N-OCTYL PHTHALATE DRY WGT BOTUG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34600	DI-N-OCTYL PHTHALATE WET WGT TISM/G/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34601	2,4-DICHLOROPHENOL TOTWUG/L	07/27/87-07/27/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34604	2,4-DICHLOROPHENOL DRY WGT BOTUG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34605	2,4-DICHLOROPHENOL WET WGT TISM/G/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34606	2,4-DIMETHYLPHENOL TOTWUG/L	07/27/87-07/27/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34609	2,4-DIMETHYLPHENOL DRY WGT BOTUG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34610	2,4-DIMETHYLPHENOL WET WGT TISM/G/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34611	2,4-DINITROTOLUENE TOTWUG/L	07/27/87-07/27/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34614	2,4-DINITROTOLUENE DRY WGT BOTUG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34615	2,4-DINITROTOLUENE WET WGT TISM/G/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34616	2,4-DINITROPHENOL TOTWUG/L	07/27/87-07/27/87	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34619	2,4-DINITROPHENOL DRY WGT BOTUG/KG	07/27/87-07/27/87	1 ##	800.	800.	800.	800.	0.	0.	**	**	**	**
34620	2,4-DINITROPHENOL WET WGT TISM/G/KG	07/27/87-07/27/87	1 ##	800.	800.	800.	800.	0.	0.	**	**	**	**
34621	2,4,6-TRICHLOROPHENOL TOTWUG/L	07/27/87-07/27/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34624	2,4,6-TRICHLOROPHENOL DRY WGT BOTUG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34625	2,4,6-TRICHLOROPHENOL WET WGT TISM/G/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34626	2,6-DINITROTOLUENE TOTWUG/L	07/27/87-07/27/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0013

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
34629	2,6-DINITROTOLUENE DRY WGTBOTUG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34630	2,6-DINITROTOLUENE WET WGTISMKG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34631	3,3'-DICHLORO BENZIDINE TOTWUG/L	07/27/87-07/27/87	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
34634	3,3'-DICHLORO BENZIDINE DRY WGTBOTUG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34635	3,3'-DICHLORO BENZIDINE WET WGTISMKG/KG	07/27/87-07/28/87	2 ##	82.502	82.502	165.	0.004	13611.84	116.67	**	**	**	**
34636	4-BROMOPHENYL PHENYL ETHER TOTWUG/L	07/27/87-07/27/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34639	4-BROMOPHENYL PHENYL ETHER DRY WGTBOTUG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34640	4-BROMOPHENYL PHENYL ETHER WET WGTISMKG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34641	4-CHLOROPHENYL PHENYL ETHER TOTWUG/L	07/27/87-07/27/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34644	4-CHLOROPHENYL PHENYL ETHER DRY WGTBOTUG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34645	4-CHLOROPHENYL PHENYL ETHER WET WGTISMKG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34646	4-NITROPHENOL TOTWUG/L	07/27/87-07/27/87	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34649	4-NITROPHENOL DRY WGTBOTUG/KG	07/27/87-07/27/87	1 ##	800.	800.	800.	800.	0.	0.	**	**	**	**
34650	4-NITROPHENOL WET WGTISMKG/KG	07/27/87-07/27/87	1 ##	800.	800.	800.	800.	0.	0.	**	**	**	**
34657	DNOC (4,6-DINITRO-ORTHO-CRESOL) TOTWUG/L	07/27/87-07/27/87	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34661	DNOC (4,6-DINITRO-ORTHO-CRESOL) WET WGTISMKG/KG	07/27/87-07/27/87	1 ##	800.	800.	800.	800.	0.	0.	**	**	**	**
34664	PCB - 1221 WET WGTISMKG/KG	07/28/87-07/28/87	1 ##	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
34667	PCB - 1232 WET WGTISMKG/KG	07/28/87-07/28/87	2 ##	0.145	0.145	0.25	0.04	0.022	0.148	**	**	**	**
34669	PCB - 1248 WET WGTISMKG/KG	07/28/87-07/28/87	1 ##	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
34670	PCB - 1260 WET WGTISMKG/KG	07/28/87-07/28/87	1 ##	0.08	0.08	0.08	0.08	0.	0.	**	**	**	**
34671	PCB - 1016 TOTWUG/L	07/28/87-07/28/87	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34674	PCB - 1016 WET WGTISMKG/KG	07/28/87-07/28/87	1 ##	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	07/28/87-07/28/87	1 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
34682	CHLORDANE(TECH MIX & METABS),TISSUEWET WGT, MG/KG	07/28/87-07/28/87	1 ##	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
34683	DI-N-BUTYL PHTHALATE, TISSUE, WET WGTWET WGT	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34685	ENDRIN WET WGTISMKG/KG	07/28/87-07/28/87	1 ##	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
34686	HEPTACHLOR EPOXIDE WET WGTISMKG/KG	07/28/87-07/28/87	1 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
34687	HEPTACHLOR WET WGTISMKG/KG	07/28/87-07/28/87	1 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
34688	HEXACHLORO BENZENE WET WGTISMKG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34689	PCB - 1242 WET WGTISMKG/KG	07/28/87-07/28/87	1 ##	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
34690	PCB - 1254 WET WGTISMKG/KG	07/28/87-07/28/87	1 ##	0.08	0.08	0.08	0.08	0.	0.	**	**	**	**
34691	TOXAPHENE WET WGTISMKG/KG	07/28/87-07/28/87	1 ##	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
34694	PHENOL(C6H5OH)-SINGLE COMPOUND TOTWUG/L	07/27/87-07/27/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34695	PHENOL(C6H5OH)-SINGLE COMPOUND DRY WGTUG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
39032	PCP (PENTACHLOROPHENOL) WHOLE WATER SAMPLE UG/L	07/27/87-07/27/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39060	PCP (PENTACHLOROPHENOL) IN TISSUE WET WGT UG/G	07/27/87-07/27/87	1 ##	800.	800.	800.	800.	0.	0.	**	**	**	**
39061	PCP (PENTACHLOROPHENOL) IN BOT DEPOS DRY SOL UG/KG	07/27/87-07/27/87	1 ##	800.	800.	800.	800.	0.	0.	**	**	**	**
39064	CHLORDANE-CIS ISOMER BOTTOM DEPOS (UG/KG DRY SOL	07/28/87-07/28/87	1 ##	98.	98.	98.	98.	0.	0.	**	**	**	**
39074	BHC-ALPHA ISOMER, TISSUE UG/G WET WGT	07/28/87-07/28/87	1 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
39076	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	07/28/87-07/28/87	1 ##	9.8	9.8	9.8	9.8	0.	0.	**	**	**	**
39099	BIS(2-ETHYLHEXYL)PHTHALATE, TISSUE, WET WGT, MG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
39100	BIS(2-ETHYLHEXYL) PHTHALATE, WHOLE WATER, UG/L	07/27/87-07/27/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39102	BIS(2-ETHYLHEXYL) PHTHALATE, SEDIMENT, DRY WGT, UG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
39110	DI-N-BUTYL PHTHALATE, WHOLE WATER, UG/L	07/27/87-07/27/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39112	DI-N-BUTYL PHTHALATE, SEDIMENTS, DRY WGT, UG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
39250	NAPHTHALENES, POLYCHLORINATED (UG/L)	07/27/87-07/27/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39300	P,P' DDT IN WHOLE WATER SAMPLE (UG/L)	07/28/87-07/28/87	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39301	P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/28/87-07/28/87	1 ##	19.6	19.6	19.6	19.6	0.	0.	**	**	**	**
39302	P P DDT IN TISSUE WET WGT (UG/G)	07/28/87-07/28/87	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
39310	P,P' DDD IN WHOLE WATER SAMPLE (UG/L)	07/28/87-07/28/87	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/28/87-07/28/87	1 ##	19.6	19.6	19.6	19.6	0.	0.	**	**	**	**
39320	P,P' DDE IN WHOLE WATER SAMPLE (UG/L)	07/28/87-07/28/87	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/28/87-07/28/87	1 ##	19.6	19.6	19.6	19.6	0.	0.	**	**	**	**
39322	P,P'-DDE IN TISSUE WET WGT MG/KG	07/28/87-07/28/87	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	07/28/87-07/28/87	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/28/87-07/28/87	1 ##	9.8	9.8	9.8	9.8	0.	0.	**	**	**	**
39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	07/28/87-07/28/87	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39338	BETA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	07/28/87-07/28/87	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39340	GAMMA-BHC(LINDANE), WHOLE WATER, UG/L	07/28/87-07/28/87	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39348	CHLORDANE, ALPHA, IN WHOLE WATER SAMPLE (UG/L)	07/28/87-07/28/87	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	07/28/87-07/28/87	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	07/28/87-07/28/87	1 ##	19.6	19.6	19.6	19.6	0.	0.	**	**	**	**
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	07/28/87-07/28/87	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0013

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/28/87-07/28/87	1 ##	9.8	9.8	9.8	9.8	0.	0.	**	**	**
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	07/28/87-07/28/87	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**
39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	07/28/87-07/28/87	1 ##	196.	196.	196.	196.	0.	0.	**	**	**
39404	DIELDRIN IN TISSUE WET WGT (UG/G)	07/28/87-07/28/87	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	07/28/87-07/28/87	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**
39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	07/28/87-07/28/87	1 ##	9.8	9.8	9.8	9.8	0.	0.	**	**	**
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	07/28/87-07/28/87	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**
39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	07/28/87-07/28/87	1 ##	9.8	9.8	9.8	9.8	0.	0.	**	**	**
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	07/28/87-07/28/87	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**
39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	07/28/87-07/28/87	1 ##	98.	98.	98.	98.	0.	0.	**	**	**
39488	PCB - 1221 IN THE WHOLE WATER SAMPLE UG/L	07/28/87-07/28/87	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**
39491	PCB - 1221 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	07/28/87-07/28/87	1 ##	98.	98.	98.	98.	0.	0.	**	**	**
39495	PCB - 1232 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	07/28/87-07/28/87	1 ##	98.	98.	98.	98.	0.	0.	**	**	**
39496	PCB - 1242 PCB SERIES WHOLE WATER SAMPLE UG/L	07/28/87-07/28/87	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**
39499	PCB - 1242 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	07/28/87-07/28/87	1 ##	98.	98.	98.	98.	0.	0.	**	**	**
39500	PCB - 1248 PCB SERIES WHOLE WATER SAMPLE UG/L	07/28/87-07/28/87	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**
39503	PCB - 1248 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	07/28/87-07/28/87	1 ##	98.	98.	98.	98.	0.	0.	**	**	**
39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE UG/L	07/28/87-07/28/87	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**
39507	PCB - 1254 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	07/28/87-07/28/87	1 ##	196.	196.	196.	196.	0.	0.	**	**	**
39508	PCB - 1260 PCB SERIES WHOLE WATER SAMPLE UG/L	07/28/87-07/28/87	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**
39511	PCB - 1260 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	07/28/87-07/28/87	1 ##	196.	196.	196.	196.	0.	0.	**	**	**
39514	PCB - 1016 IN BOTTOM SEDIMENTS DRY WT UG/KG	07/28/87-07/28/87	1 ##	98.	98.	98.	98.	0.	0.	**	**	**
39700	HEXACHLORO BENZENE IN WHOLE WATER SAMPLE (UG/L)	07/27/87-07/27/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**
39701	HEXACHLORO BENZENE IN BOT DEPOS (UG/KG DRY SOLIDS)	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**
39705	HEXACHLOROBUTADIENE BOT. DEPOS.(UG/KG DRY WGT)	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**
39785	GAMMA-BHC(LINDANE),TISSUE,WET WEIGHT,MG/KG	07/28/87-07/28/87	1 ##	0.004	0.004	0.004	0.004	0.	0.	**	**	**
39810	CHLORDANE,GAMMA,IN WHOLE WATER SAMPLE (UG/L)	07/28/87-07/28/87	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**
39811	CHLORDANE,GAMMA,IN BOTTOM DEPOS(UG/KG DRY SOLIDS)	07/28/87-07/28/87	1 ##	98.	98.	98.	98.	0.	0.	**	**	**
45145	DIMETHYLNAPHTHALENE IN SEDIMENT UG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	07/28/87-07/28/87	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	07/27/87-07/27/87	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**
71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	07/27/87-07/27/87	1 ##	0.075	0.075	0.075	0.075	0.	0.	**	**	**
71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	07/27/87-07/27/87	1 ##	0.85	0.85	0.85	0.85	0.	0.	**	**	**
71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	07/27/87-07/27/87	1 ##	0.32	0.32	0.32	0.32	0.	0.	**	**	**
73529	BENZENAMINE, 4-CHLORO- TOTWUG/L	07/27/87-07/27/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**
73605	BENZENAMINE, 4-NITRO- TOTWUG/L	07/27/87-07/27/87	1 ##	25.	25.	25.	25.	0.	0.	**	**	**
75212	BENZYL ALCOHOL SEDIMENT,DRY WGT,UG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**
75315	BENZOIC ACID SEDIMENT,DRY WGT,UG/KG	07/27/87-07/27/87	1 ##	800.	800.	800.	800.	0.	0.	**	**	**
75647	DIBENZOFURAN SEDIMENT,DRY WGT,UG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**
76184	BENZYL ALCOHOL TISSUE ,WET WGT,MG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**
76287	BENZOIC ACID TISSUE ,WET WGT,MG/KG	07/27/87-07/27/87	1 ##	800.	800.	800.	800.	0.	0.	**	**	**
76619	DIBENZOFURAN TISSUE ,WET WGT,MG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**
76982	4-CHLORO-3,5-DIMETHYLPHENOL, IN WATER UG/L	07/27/87-07/27/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**
77146	P-CRESOL WHOLE WATER,UG/L	07/27/87-07/27/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**
77147	BENZYL ALCOHOL WHOLE WATER,UG/L	07/27/87-07/27/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**
77152	O-CRESOL WHOLE WATER,UG/L	07/27/87-07/27/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**
77247	BENZOIC ACID WHOLE WATER,UG/L	07/27/87-07/27/87	1 ##	25.	25.	25.	25.	0.	0.	**	**	**
77416	2-METHYLNAPHTHALENE WHOLE WATER,UG/L	07/27/87-07/27/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**
77687	2,4,5-TRICHLOROPHENOL WHOLE WATER,UG/L	07/27/87-07/27/87	1 ##	25.	25.	25.	25.	0.	0.	**	**	**
78008	ENDRIN KETONE IN WATER UG/L	07/28/87-07/28/87	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**
78142	ORTHO NITROANILINE IN WHOLE WATER UG/L	07/27/87-07/27/87	1 ##	25.	25.	25.	25.	0.	0.	**	**	**
78211	ENDRIN KETONE IN FISH TISSUE WETWTMG/KG	07/28/87-07/28/87	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**
78299	2-NITROANILINE IN SEDIMENT, DRY WEIGHT UG/KG	07/27/87-07/27/87	1 ##	800.	800.	800.	800.	0.	0.	**	**	**
78300	3-NITROANILINE, TOTAL, IN WATER UG/L	07/27/87-07/27/87	1 ##	25.	25.	25.	25.	0.	0.	**	**	**
78395	2-METHYLPHENOL SEDWETWTMG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**
78396	4METHYLPHENOL SEDWETWTMG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**
78401	2,4,5-TRICHLOROPHENOL IN SEDIMENT,DRY WEIGHT,UG/KG	07/27/87-07/27/87	1 ##	800.	800.	800.	800.	0.	0.	**	**	**
78867	4-CHLOROANILINE IN SEDIMENT DRY WEIGHT UG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**
78869	3-NITROANILINE IN SEDIMENT DRY WEIGHT UG/KG	07/27/87-07/27/87	1 ##	800.	800.	800.	800.	0.	0.	**	**	**
78870	4-NITROANILINE IN SEDIMENT DRY WEIGHT UG/KG	07/27/87-07/27/87	1 ##	800.	800.	800.	800.	0.	0.	**	**	**
79025	CHLORDANE, ALPHA, IN FISH WET WEIGHT UG/KG	07/28/87-07/28/87	1 ##	0.04	0.04	0.04	0.04	0.	0.	**	**	**
79040	DIBENZ(A,H)ANTHRACENE TISWETWTMG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**
81302	DIBENZOFURAN(C12H8O) WHOLE WATER SAMPLE UG/L	07/27/87-07/27/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0013

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
81644 METHOXYCHLOR IN FISH TISSUE,UG/G WET WEIGHT	07/28/87-07/28/87	1 ##	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
85759 NITROANILINE, 2- , TISSUE, WET WT, MG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
85760 CHLORANILINE, 4- , TISSUE, WET WT, MG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
85762 NITROANILINE, 4- , TISSUE, WET WT, MG/KG	07/27/87-07/27/87	1 ##	800.	800.	800.	800.	0.	0.	**	**	**	**
85763 NITROANILINE, 3- , TISSUE, WET WT, MG/KG	07/27/87-07/27/87	1 ##	800.	800.	800.	800.	0.	0.	**	**	**	**
85766 METHYLPHENOL, 4- , TISSUE, WET WT, MG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
85767 METHYLPHENOL, 2- , TISSUE, WET WT, MG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
85791 ENDRIN KETONE, SEDIMENT, DRY WT,(SF) UG/KG	07/28/87-07/28/87	1 ##	19.6	19.6	19.6	19.6	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0013

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
01002 ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00										1	0	0.00
	Drinking Water	50.	1	0	0.00										1	0	0.00
01012 BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00										1	0	0.00
	Drinking Water	4.	1	0	0.00										1	0	0.00
01026 CADMIUM, SUSPENDED	Fresh Acute	3.9	1	0	0.00										1	0	0.00
	Drinking Water	5.	1	0	0.00										1	0	0.00
01042 COPPER, TOTAL	Fresh Acute	18.	1	0	0.00										1	0	0.00
	Drinking Water	1300.	1	0	0.00										1	0	0.00
01051 LEAD, TOTAL	Fresh Acute	82.	1	0	0.00										1	0	0.00
	Drinking Water	15.	1	0	0.00										1	0	0.00
01059 THALLIUM, TOTAL	Fresh Acute	1400.	1	0	0.00										1	0	0.00
	Drinking Water	2.	1	0	0.00										1	0	0.00
01067 NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00										1	0	0.00
	Drinking Water	100.	1	0	0.00										1	0	0.00
01077 SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00										1	0	0.00
	Drinking Water	100.	1	0	0.00										1	0	0.00
01097 ANTIMONY, TOTAL	Fresh Acute	88.	1	0	0.00										1	0	0.00
	Drinking Water	6.	1	0	0.00										1	0	0.00
34205 ACENAPHTHENE, TOTAL	Fresh Acute	1700.	1	0	0.00										1	0	0.00
34356 ENDOSULFAN, BETA, TOTAL	Fresh Acute	0.22	1	0	0.00										1	0	0.00
34361 ENDOSULFAN, ALPHA, TOTAL	Fresh Acute	0.22	1 &	0	0.00										1	0	0.00
34376 FLUORANTHENE, TOTAL	Fresh Acute	3980.	1	0	0.00										1	0	0.00
34386 HEXACHLOROCYCLOPENTADIENE, TOTAL	Fresh Acute	7.	1	0	0.00										1	0	0.00
	Drinking Water	50.	1	0	0.00										1	0	0.00
34391 HEXACHLOROBUTADIENE, TOTAL	Fresh Acute	90.	1	0	0.00										1	0	0.00
34396 HEXACHLOROETHANE, TOTAL	Fresh Acute	980.	1	0	0.00										1	0	0.00
34403 IDENO (1,2,3-CD) PYRENE	Drinking Water	0.4	0 &	0	0.00												
34408 ISOPHORONE, TOTAL	Fresh Acute	117000.	1	0	0.00										1	0	0.00
34447 NITROBENZENE, TOTAL	Fresh Acute	27000.	1	0	0.00										1	0	0.00
34461 PHENANTHRENE, TOTAL	Fresh Acute	30.	1	0	0.00										1	0	0.00
34536 1,2-DICHLOROBENZENE, TOTAL	Drinking Water	600.	1	0	0.00										1	0	0.00
34551 1,2,4-TRICHLOROBENZENE, TOTAL	Drinking Water	70.	1	0	0.00										1	0	0.00
34566 1,3-DICHLOROBENZENE, TOTAL	Drinking Water	600.	1	0	0.00										1	0	0.00
34571 1,4-DICHLOROBENZENE, TOTAL	Drinking Water	75.	1	0	0.00										1	0	0.00
34586 2-CHLOROPHENOL, TOTAL	Fresh Acute	4380.	1	0	0.00										1	0	0.00
34601 2,4-DICHLOROPHENOL, TOTAL	Fresh Acute	2020.	1	0	0.00										1	0	0.00
34606 2,4-DIMETHYLPHENOL, TOTAL	Fresh Acute	2120.	1	0	0.00										1	0	0.00
34611 2,4-DINITROTOLUENE, TOTAL	Fresh Acute	330.	1	0	0.00										1	0	0.00
34694 PHENOL (C6H5OH) - SINGLE COMPOUND, TOTAL	Fresh Acute	10200.	1	0	0.00										1	0	0.00
39032 PCP (PENTACHLOROPHENOL) WHOLE WATER SAMP	Fresh Acute	20.	1	0	0.00										1	0	0.00
	Drinking Water	1.	0 &	0	0.00												
39100 BIS(2-ETHYLHEXYL) PHTHALATE, WHOLE WATER	Fresh Acute	2000.	1	0	0.00										1	0	0.00
	Drinking Water	6.	1	0	0.00										1	0	0.00
39300 P,P' DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	1	0	0.00										1	0	0.00
39310 P,P' DDD IN WHOLE WATER SAMPLE	Fresh Acute	0.6	1	0	0.00										1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: TUZI0013

Parameter	Std. Type	Std. Value	Total		Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
			Obs	Standard		Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
39320 P,P' DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	1	0	0.00										1	0	0.00
39330 ALDRIN IN WHOLE WATER SAMPLE	Fresh Acute	3.	1	0	0.00										1	0	0.00
39340 GAMMA-BHC(LINDANE), WHOLE WATER	Fresh Acute	2.	1	0	0.00										1	0	0.00
	Drinking Water	0.2	1	0	0.00										1	0	0.00
39380 DIELDIN IN WHOLE WATER SAMPLE	Fresh Acute	2.5	1	0	0.00										1	0	0.00
39390 ENDRIN IN WHOLE WATER SAMPLE	Fresh Acute	0.18	1	0	0.00										1	0	0.00
	Drinking Water	2.	1	0	0.00										1	0	0.00
39400 TOXAPHENE IN WHOLE WATER SAMPLE	Fresh Acute	0.73	1	0	0.00										1	0	0.00
	Drinking Water	3.	1	0	0.00										1	0	0.00
39410 HEPTACHLOR IN WHOLE WATER SAMPLE	Fresh Acute	0.52	1	0	0.00										1	0	0.00
	Drinking Water	0.4	1	0	0.00										1	0	0.00
39420 HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Fresh Acute	0.52	1	0	0.00										1	0	0.00
	Drinking Water	0.2	1	0	0.00										1	0	0.00
39480 METHOXYCHLOR IN WHOLE WATER SAMPLE	Drinking Water	40.	1	0	0.00										1	0	0.00
39700 HEXACHLOROBENZENE IN WHOLE WATER SAMPLE	Fresh Acute	6.	1	0	0.00										1	0	0.00
	Drinking Water	1.	0 &	0	0.00												
71900 MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00										1	0	0.00
	Drinking Water	2.	1	0	0.00										1	0	0.00
77687 2,4,5-TRICHLOROPHENOL, WHOLE WATER	Fresh Acute	100.	1	0	0.00										1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0014

NPS Station ID: TUZI0014
 Location: A-16-03 27DAB
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 15060202
 Major Basin:
 Minor Basin:
 RF1 Index: 15060202
 RF3 Index: 15060202021900.00
 Description:

LAT/LON: 34.754170/-112.012226

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.00

Agency: 112WRD
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): 344515112004401
 Within Park Boundary: No

Date Created: 04/14/78

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.80
 Distance from RF3: 0.08

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: TUZI0014

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/26/93-07/26/93	1	21.	21.	21.	21.	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/09/58-07/26/93	5	526.	523.6	560.	454.	1842.8	42.928	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	07/26/93-07/26/93	1	5.9	5.9	5.9	5.9	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)	10/09/58-07/26/93	5	7.5	7.44	7.6	7.2	0.023	0.152	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	10/09/58-07/26/93	5	7.5	7.417	7.6	7.2	0.024	0.154	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/09/58-07/26/93	5	0.032	0.038	0.063	0.025	0.	0.015	**	**	**	**
00403 PH, LAB, STANDARD UNITS SU	07/26/93-07/26/93	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	07/26/93-07/26/93	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/26/93-07/26/93	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
00405 CARBON DIOXIDE (MG/L AS CO2)	10/09/58-02/09/78	4	15.5	18.5	31.	12.	72.333	8.505	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	10/09/58-07/26/93	5	250.	248.2	258.	238.	57.2	7.563	**	**	**	**
00440 BICARBONATE ION (MG/L AS HCO3)	10/09/58-02/09/78	4	303.5	302.75	314.	290.	124.917	11.177	**	**	**	**
00445 CARBONATE ION (MG/L AS CO3)	10/09/58-02/09/78	4	0.	0.	0.	0.	0.	0.	**	**	**	**
00608 NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	07/26/93-07/26/93	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00613 NITRITE NITROGEN, DISSOLVED (MG/L AS N)	07/26/93-07/26/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00631 NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	02/09/78-07/26/93	2	0.25	0.25	0.3	0.2	0.005	0.071	**	**	**	**
00660 PHOSPHATE, ORTHO (MG/L AS PO4)	02/09/78-02/09/78	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	02/09/78-07/26/93	2	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	10/09/58-02/09/78	4	262.	263.5	270.	260.	22.333	4.726	**	**	**	**
00902 HARDNESS, NON-CARBONATE (MG/L AS CaCO3)	10/09/58-02/09/78	4	16.	15.25	22.	7.	38.25	6.185	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	10/09/58-07/26/93	5	62.	65.8	78.	60.	53.2	7.294	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	10/09/58-07/26/93	5	27.	24.2	28.	16.	27.2	5.215	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS Na)	07/30/73-07/26/93	4	15.	15.75	18.	15.	2.25	1.5	**	**	**	**
00931 SODIUM ADSORPTION RATIO	10/09/58-02/09/78	4	0.45	0.45	0.5	0.4	0.003	0.058	**	**	**	**
00932 SODIUM, PERCENT	10/09/58-02/09/78	2	12.5	12.5	14.	11.	4.5	2.121	**	**	**	**
00933 SODIUM,PLUS POTASSIUM (MG/L)	10/09/58-10/09/58	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	02/09/78-07/26/93	2	1.85	1.85	1.9	1.8	0.005	0.071	**	**	**	**
00940 CHLORIDE, TOTAL IN WATER MG/L	10/09/58-07/26/93	5	26.	27.	30.	25.	5.5	2.345	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	10/09/58-07/26/93	5	6.	23.	85.	5.	1211.5	34.807	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	10/09/58-07/26/93	5	0.1	0.14	0.2	0.1	0.003	0.055	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SiO2)	10/09/58-07/26/93	3	18.	19.333	22.	18.	5.333	2.309	**	**	**	**
01000 ARSENIC, DISSOLVED (UG/L AS AS)	02/09/78-07/26/93	2	22.	22.	23.	21.	2.	1.414	**	**	**	**
01002 ARSENIC, TOTAL (UG/L AS AS)	07/30/73-11/30/76	2 ##	11.	11.	17.	5.	72.	8.485	**	**	**	**
01005 BARIUM, DISSOLVED (UG/L AS Ba)	07/26/93-07/26/93	1	590.	590.	590.	590.	0.	0.	**	**	**	**
01020 BORON, DISSOLVED (UG/L AS B)	02/09/78-07/26/93	2	55.	55.	70.	40.	450.	21.213	**	**	**	**
01032 CHROMIUM, HEXAVALENT (UG/L AS CR)	07/26/93-07/26/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01040 COPPER, DISSOLVED (UG/L AS CU)	07/26/93-07/26/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01045 IRON, TOTAL (UG/L AS FE)	07/30/73-11/30/76	2 ##	47.5	47.5	70.	25.	1012.5	31.82	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0014

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01046	IRON, DISSOLVED (UG/L AS FE)	02/09/78-07/26/93	2 ##	10.75	10.75	20.	1.5	171.125	13.081	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	07/26/93-07/26/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	07/30/73-11/30/76	2 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	02/09/78-07/26/93	2 ##	2.75	2.75	5.	0.5	10.125	3.182	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/26/93-07/26/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	07/26/93-07/26/93	1	190.	190.	190.	190.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	07/26/93-07/26/93	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	07/26/93-07/26/93	1	31.	31.	31.	31.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	07/26/93-07/26/93	1	12.	12.	12.	12.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	07/26/93-07/26/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/30/73-11/30/76	2	297.5	297.5	305.	290.	112.5	10.607	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/09/58-02/09/78	2	316.5	316.5	320.	313.	24.5	4.95	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	02/09/78-02/09/78	1	0.43	0.43	0.43	0.43	0.	0.	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/09/58-11/30/76	3	0.8	0.767	1.	0.5	0.063	0.252	**	**	**	**
71870	BROMIDE (MG/L AS BR)	07/26/93-07/26/93	1	0.08	0.08	0.08	0.08	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	07/26/93-07/26/93	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0014

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00									1	0	0.00
00400	PH	Fresh Chronic	9.	5	0	0.00									3	0	0.00
		Other-Lo Lim.	6.5	5	0	0.00									3	0	0.00
00403	PH, LAB	Fresh Chronic	9.	1	0	0.00									1	0	0.00
		Other-Lo Lim.	6.5	1	0	0.00									1	0	0.00
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00									1	0	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	2	0	0.00	1	0	0.00						1	0	0.00
00940	CHLORIDE, TOTAL IN WATER	Fresh Acute	860.	5	0	0.00	2	0	0.00						3	0	0.00
		Drinking Water	250.	5	0	0.00	2	0	0.00						3	0	0.00
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	5	0	0.00	2	0	0.00						3	0	0.00
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	5	0	0.00	2	0	0.00						3	0	0.00
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	2	0	0.00	1	0	0.00						1	0	0.00
		Drinking Water	50.	2	0	0.00	1	0	0.00						1	0	0.00
01002	ARSENIC, TOTAL	Fresh Acute	360.	2	0	0.00	1	0	0.00						1	0	0.00
		Drinking Water	50.	2	0	0.00	1	0	0.00						1	0	0.00
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00									1	0	0.00
01032	CHROMIUM, HEXAVALENT	Fresh Acute	16.	1	0	0.00									1	0	0.00
		Drinking Water	100.	1	0	0.00									1	0	0.00
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00									1	0	0.00
		Drinking Water	1300.	1	0	0.00									1	0	0.00
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00									1	0	0.00
		Drinking Water	15.	1	0	0.00									1	0	0.00
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00									1	0	0.00
		Drinking Water	5000.	1	0	0.00									1	0	0.00
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00									1	0	0.00
		Drinking Water	50.	1	0	0.00									1	0	0.00
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	3	0	0.00	1	0	0.00						2	0	0.00
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	1	0	0.00									1	0	0.00
		Drinking Water	2.	1	0	0.00									1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0015

NPS Station ID: TUZI0015
 Location: TAILINGS SEEPAGE AT JEROME
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 15060202
 Major Basin: COLORADO RIVER
 Minor Basin: GILA**SALT**VERDE
 RF1 Index: 15060202
 RF3 Index: 15060202006601.27
 Description:

LAT/LON: 34.756948/-112.125005

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 1.47

Agency: 21ARIZ
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): 702600253000110/VR 015
 Within Park Boundary: No

Date Created: / /

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 16.00
 Distance from RF3: 0.19

On/Off RF1:
 On/Off RF3:

LAT 34 45'25". LONG 112 07'30". NW1/4, SEC 22, T16N, R2E, (UNSURVEYED), YAVAPAI CO, 1 KM (0.6 MI) NORTHWEST OF JEROME, AZ, ON ROAD TO PERKINSVILLE, IN VICINITY OF UNITED VERDE MINE, ON NORTHEAST SIDE OF ROAD.

Parameter Inventory for Station: TUZI0015

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/08/73-02/08/73	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/08/73-02/08/73	1	670.	670.	670.	670.	0.	0.	**	**	**	**
00403 PH, LAB, STANDARD UNITS SU	02/08/73-02/08/73	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	02/08/73-02/08/73	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/08/73-02/08/73	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	02/08/73-02/08/73	1	176.	176.	176.	176.	0.	0.	**	**	**	**
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	02/08/73-02/08/73	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00650 PHOSPHATE, TOTAL (MG/L AS PO4)	02/08/73-02/08/73	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00720 CYANIDE, TOTAL (MG/L AS CN) MG/L	02/08/73-02/08/73	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	02/08/73-02/08/73	1	376.	376.	376.	376.	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	02/08/73-02/08/73	1	81.	81.	81.	81.	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	02/08/73-02/08/73	1	42.	42.	42.	42.	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS Na)	02/08/73-02/08/73	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00940 CHLORIDE, TOTAL IN WATER MG/L	02/08/73-02/08/73	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	02/08/73-02/08/73	1	500.	500.	500.	500.	0.	0.	**	**	**	**
00997 ARSENIC, INORGANIC TOT (UG/L AS AS)	02/08/73-02/08/73	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01027 CADMIUM, TOTAL (UG/L AS Cd)	02/08/73-02/08/73	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01034 CHROMIUM, TOTAL (UG/L AS CR)	02/08/73-02/08/73	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042 COPPER, TOTAL (UG/L AS CU)	02/08/73-02/08/73	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01045 IRON, TOTAL (UG/L AS FE)	02/08/73-02/08/73	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01051 LEAD, TOTAL (UG/L AS Pb)	02/08/73-02/08/73	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01077 SILVER, TOTAL (UG/L AS AG)	02/08/73-02/08/73	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
70301 SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	02/08/73-02/08/73	1	740.	740.	740.	740.	0.	0.	**	**	**	**
71850 NITRATE NITROGEN, TOTAL (MG/L AS NO3)	02/08/73-02/08/73	1	2.	2.	2.	2.	0.	0.	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS Hg)	02/08/73-02/08/73	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0015

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00403	PH, LAB																
	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
	Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00615	NITRITE NITROGEN, TOTAL AS N																
	Drinking Water	1.	1	0	0.00	1	0	0.00									
00720	CYANIDE, TOTAL																
	Fresh Acute	0.022	1	0	0.00	1	0	0.00									
	Drinking Water	0.2	1	0	0.00	1	0	0.00									
00940	CHLORIDE,TOTAL IN WATER																
	Fresh Acute	860.	1	0	0.00	1	0	0.00									
	Drinking Water	250.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)																
	Drinking Water	250.	1	1	1.00	1	1	1.00									
00997	ARSENIC, INORGANIC TOT																
	Fresh Acute	360.	1	0	0.00	1	0	0.00									
	Drinking Water	50.	1	0	0.00	1	0	0.00									
01027	CADMIUM, TOTAL																
	Fresh Acute	3.9	0 &	0	0.00												
	Drinking Water	5.	0 &	0	0.00												
01034	CHROMIUM, TOTAL																
	Drinking Water	100.	1	0	0.00	1	0	0.00									
01042	COPPER, TOTAL																
	Fresh Acute	18.	0 &	0	0.00												
	Drinking Water	1300.	1	0	0.00	1	0	0.00									
01051	LEAD, TOTAL																
	Fresh Acute	82.	1	0	0.00	1	0	0.00									
	Drinking Water	15.	0 &	0	0.00												
01077	SILVER, TOTAL																
	Fresh Acute	4.1	0 &	0	0.00												
	Drinking Water	100.	1	0	0.00	1	0	0.00									
71850	NITRATE NITROGEN, TOTAL (AS NO3)																
	Drinking Water	44.	1	0	0.00	1	0	0.00									
71900	MERCURY, TOTAL																
	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
	Drinking Water	2.	1	0	0.00	1	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0016

NPS Station ID: TUZI0016
 Location: A-16-03 27BAD
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 15060202
 Major Basin:
 Minor Basin:
 RF1 Index: 15060202
 RF3 Index: 15060202054800.00
 Description:

LAT/LON: 34.759448/-112.018616

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 1.12

Agency: 112WRD
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): 344534112010701
 Within Park Boundary: No

Date Created: 04/14/78

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 5.10
 Distance from RF3: 0.13

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: TUZI0016

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/15/58-10/15/58	1	21.	21.	21.	21.	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/15/58-10/15/58	1	539.	539.	539.	539.	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)	10/15/58-10/15/58	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	10/15/58-10/15/58	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/15/58-10/15/58	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00405 CARBON DIOXIDE (MG/L AS CO2)	10/15/58-10/15/58	1	23.	23.	23.	23.	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	10/15/58-10/15/58	1	240.	240.	240.	240.	0.	0.	**	**	**	**
00440 BICARBONATE ION (MG/L AS HCO3)	10/15/58-10/15/58	1	293.	293.	293.	293.	0.	0.	**	**	**	**
00445 CARBONATE ION (MG/L AS CO3)	10/15/58-10/15/58	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	10/15/58-10/15/58	1	245.	245.	245.	245.	0.	0.	**	**	**	**
00902 HARDNESS, NON-CARBONATE (MG/L AS CaCO3)	10/15/58-10/15/58	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	10/15/58-10/15/58	1	57.	57.	57.	57.	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	10/15/58-10/15/58	1	25.	25.	25.	25.	0.	0.	**	**	**	**
00931 SODIUM ADSORPTION RATIO	10/15/58-10/15/58	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00932 SODIUM, PERCENT	10/15/58-10/15/58	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00933 SODIUM,PLUS POTASSIUM (MG/L)	10/15/58-10/15/58	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	10/15/58-10/15/58	1	29.	29.	29.	29.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	10/15/58-10/15/58	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	10/15/58-10/15/58	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SiO2)	10/15/58-10/15/58	1	22.	22.	22.	22.	0.	0.	**	**	**	**
70301 SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/15/58-10/15/58	1	304.	304.	304.	304.	0.	0.	**	**	**	**
71850 NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/15/58-10/15/58	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0016

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
00400 PH	Fresh Chronic	9.	1	0	0.00	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
	Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00	1	0	0.00						
	Fresh Acute	860.	1	0	0.00	1	0	0.00	1	0	0.00						
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00									
	Drinking Water	250.	1	0	0.00	1	0	0.00									
00950 FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00	1	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: TUZI0016

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
							Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0017

NPS Station ID: TUZI0017 LAT/LON: 34.759782/-112.022809

Location: VERDE RIVER DOWNSTREAM OF DIVERSION DITCH

Station Type: /TYPA/AMBNT/STREAM/SOLIDS/MINE

RMI-Indexes:

RMI-Miles:

HUC: 15060202

Major Basin: COLORADO RIVER

Minor Basin: GILA RIVER

RF1 Index: 15060202

RF3 Index: 15060202002505.59

Description:

THE STATION IS LOCATED ON THE CLARKDALE AZ-YAVAPAI COUNTY 7.5 MINUTE VERDE RIVER DOWNSTREAM OF WHERE THE DIVERSION DITCH RE-ENTERS IT. THE DATA ARE FROM A SITE SCREENING INVESTIGATION REPORT FOR THE PHELPS DODGE VERDE MINE AREA BY ECOLOGY AND ENVIRONMENT, INC. UNDER CONTRACT BY THE EPA. THE STUDY WAS CONDUCTED TO DETERMINE IF METALS ARE BEING RELEASED INTO THE ENVIRONMENT FROM A 116 ACRE TAILINGS PILE WHICH IS ADJACENT TO THE VERDE RIVER AND "CONTAINS APPROXIMATELY 4 MILLION TONS OF MINING WASTES." NPS STAFF ASSIGNED "J" STORET REMARK CODES TO VALUES THAT WERE ESTIMATED FROM ANALYTICAL MEASUREMENTS. FOR MORE INFORMATION CONTACT TUZIGOOT NATIONAL MONUMENT AT P.O. BOX 219; CAMP VERDE AZ 86332 (520-634-5564). DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (970-225-3516).

Agency: 11NPSWRD

FIPS State/County: 04025 ARIZONA/YAVAPAI

STORET Station ID(s): TUZI_EPA_EE23

Within Park Boundary: No

Date Created: 11/28/98

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 6.29

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.01

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: TUZI0017

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00917 CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	06/30/92-06/30/92	2	70050.	70050.	85300.	54800.	465125000.	21566.757	**	**	**	**
00924 MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	06/30/92-06/30/92	2	8970.	8970.	10400.	7540.	4089800.	2022.325	**	**	**	**
00938 POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	06/30/92-06/30/92	1	1570.	1570.	1570.	1570.	0.	0.	**	**	**	**
01003 ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/30/92-06/30/92	2	9.95	9.95	10.3	9.6	0.245	0.495	**	**	**	**
01008 BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/30/92-06/30/92	2	167.5	167.5	197.	138.	1740.5	41.719	**	**	**	**
01028 CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/30/92-06/30/92	2 ##	0.518	0.518	0.6	0.435	0.014	0.117	**	**	**	**
01029 CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/30/92-06/30/92	2	16.85	16.85	18.7	15.	6.845	2.616	**	**	**	**
01043 COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/30/92-06/30/92	2	49.5	49.5	54.	45.	40.5	6.364	**	**	**	**
01052 LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/30/92-06/30/92	2	16.4	16.4	22.6	10.2	76.88	8.768	**	**	**	**
01053 MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/30/92-06/30/92	2	369.5	369.5	409.	330.	3120.5	55.861	**	**	**	**
01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/30/92-06/30/92	2	24.35	24.35	28.	20.7	26.645	5.162	**	**	**	**
01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/30/92-06/30/92	2 ##	0.518	0.518	0.6	0.435	0.014	0.117	**	**	**	**
01088 VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	06/30/92-06/30/92	2	20.85	20.85	24.2	17.5	22.445	4.738	**	**	**	**
01093 ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/30/92-06/30/92	2	161.5	161.5	180.	143.	684.5	26.163	**	**	**	**
01098 ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	06/30/92-06/30/92	2 ##	4.025	4.025	5.5	2.55	4.351	2.086	**	**	**	**
01108 ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/30/92-06/30/92	2	10075.	10075.	11400.	8750.	3511250.	1873.833	**	**	**	**
01148 SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/30/92-06/30/92	2 ##	0.85	0.85	1.	0.7	0.045	0.212	**	**	**	**
01153 TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	06/30/92-06/30/92	2 ##	0.085	0.085	0.1	0.07	0.	0.021	**	**	**	**
01170 IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/30/92-06/30/92	2	10440.	10440.	11800.	9080.	3699200.	1923.33	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0017

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
04133 MERCURY, BED MAT, DRY WT, SEDIMENT,	06/30/92-06/30/92	2 ##	0.085	0.085	0.1	0.07	0.	0.021	**	**	**	**
81373 SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	06/30/92-06/30/92	2	59.8	59.8	69.2	50.4	176.72	13.294	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: TUZI0018

NPS Station ID: TUZI0018
 Location: VERDE RIVER NEAR TUZIGOOT
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 15060202
 Major Basin: COLORADO RIVER
 Minor Basin: GILA**SALT**VERDE
 RF1 Index: 15060202025
 RF3 Index: 15060202002507.58
 Description:

LAT/LON: 34.760559/-112.027226

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 12.360
 RF3 Mile Point: 7.81

Agency: 21ARIZ
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): 700000000022020/VR 022
 Within Park Boundary: No

Date Created: / /

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.00

On/Off RF1: ON
 On/Off RF3:

LAT 34 45'38", LONG 112 01'38", NE1/4 NE1/4, SEC 28, T16N, R3E, YAVAPAI CO, 2.3 KM (1.4 MI) SOUTHEAST OF CLARKDALE ON US89A, THEN 1.1 KM (0.7 MI) EAST AND NORTH ON DIRT ROAD, IN DIVERSION DITCH ON EAST SIDE OF ROAD, 1.25 KM (0.8 MI) DOWNSTREAM FROM POINT OF DIVERSION FROM VERDE RIVER.

Parameter Inventory for Station: TUZI0018

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/31/73-08/23/73	6	25.5	20.917	27.	9.5	63.042	7.94	**	**	**	**
00070 TURBIDITY, (JACKSON CANDLE UNITS)	08/09/73-08/22/73	3	6.	7.333	10.	6.	5.333	2.309	**	**	**	**
00094 SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	01/31/73-01/31/73	1	650.	650.	650.	650.	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/09/73-08/22/73	3	420.	423.333	460.	390.	1233.333	35.119	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	08/09/73-08/22/73	3	8.5	8.5	9.5	7.5	1.	1.	**	**	**	**
00310 BOD, 5 DAY, 20 DEG C MG/L	02/07/73-08/22/73	4	1.	2.525	8.1	0.	14.043	3.747	**	**	**	**
00403 PH, LAB, STANDARD UNITS SU	08/09/73-08/22/73	3	8.3	8.333	8.5	8.2	0.023	0.153	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	08/09/73-08/22/73	3	8.3	8.316	8.5	8.2	0.024	0.154	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/09/73-08/22/73	3	0.005	0.005	0.006	0.003	0.	0.002	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	08/09/73-08/22/73	3	182.	182.667	190.	176.	49.333	7.024	**	**	**	**
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/09/73-08/22/73	3	252.	265.	300.	243.	939.	30.643	**	**	**	**
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	08/09/73-08/22/73	3 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/09/73-08/22/73	3 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00650 PHOSPHATE, TOTAL (MG/L AS PO4)	08/09/73-08/22/73	3	0.1	0.133	0.2	0.1	0.003	0.058	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	08/09/73-08/22/73	3	232.	222.667	240.	196.	549.333	23.438	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	08/09/73-08/22/73	3	43.	45.667	59.	35.	149.333	12.22	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	08/09/73-08/22/73	3	26.	26.	30.	22.	16.	4.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS NA)	08/09/73-08/22/73	3	26.	26.	31.	21.	25.	5.	**	**	**	**
00940 CHLORIDE, TOTAL IN WATER MG/L	08/09/73-08/22/73	3	15.	14.667	15.	14.	0.333	0.577	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	08/09/73-08/22/73	3	44.	45.333	52.	40.	37.333	6.11	**	**	**	**
00997 ARSENIC, INORGANIC TOT (UG/L AS AS)	08/22/73-08/22/73	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01027 CADMIUM, TOTAL (UG/L AS CD)	08/22/73-08/22/73	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01034 CHROMIUM, TOTAL (UG/L AS CR)	08/22/73-08/22/73	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01042 COPPER, TOTAL (UG/L AS CU)	08/22/73-08/22/73	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01045 IRON, TOTAL (UG/L AS FE)	08/22/73-08/22/73	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01051 LEAD, TOTAL (UG/L AS PB)	08/22/73-08/22/73	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01077 SILVER, TOTAL (UG/L AS AG)	08/22/73-08/22/73	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092 ZINC, TOTAL (UG/L AS ZN)	08/22/73-08/22/73	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
31616 FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	01/31/73-08/23/73	5	264.	1188.7	4280.	0.5	3270414.7	1808.429	**	**	**	**
31616 LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	01/31/73-08/23/73	5	2.422	2.15	3.631	-0.301	2.324	1.524	**	**	**	**
31616 GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN =			141.187								

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0018

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
71850 NITRATE NITROGEN,TOTAL (MG/L AS NO3)	08/09/73-08/22/73	3 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)	08/22/73-08/22/73	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0018

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00070 TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	3	0	0.00										3	0	0.00
00300 OXYGEN, DISSOLVED	Other-Lo Lim.	4.	3	0	0.00										3	0	0.00
00403 PH, LAB	Fresh Chronic	9.	3	0	0.00										3	0	0.00
	Other-Lo Lim.	6.5	3	0	0.00										3	0	0.00
00615 NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	3	0	0.00										3	0	0.00
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	3	0	0.00										3	0	0.00
	Drinking Water	250.	3	0	0.00										3	0	0.00
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	250.	3	0	0.00										3	0	0.00
00997 ARSENIC, INORGANIC TOT	Fresh Acute	360.	1	0	0.00										1	0	0.00
	Drinking Water	50.	1	0	0.00										1	0	0.00
01027 CADMIUM, TOTAL	Fresh Acute	3.9	0 &	0	0.00												
	Drinking Water	5.	0 &	0	0.00												
01034 CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00										1	0	0.00
01042 COPPER, TOTAL	Fresh Acute	18.	0 &	0	0.00												
	Drinking Water	1300.	1	0	0.00										1	0	0.00
01051 LEAD, TOTAL	Fresh Acute	82.	1	0	0.00										1	0	0.00
	Drinking Water	15.	0 &	0	0.00												
01077 SILVER, TOTAL	Fresh Acute	4.1	0 &	0	0.00												
	Drinking Water	100.	1	0	0.00										1	0	0.00
01092 ZINC, TOTAL	Fresh Acute	120.	1	0	0.00										1	0	0.00
	Drinking Water	5000.	1	0	0.00										1	0	0.00
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	5	3	0.60	1	0	0.00							4	3	0.75
71850 NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	3	0	0.00										3	0	0.00
71900 MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00										1	0	0.00
	Drinking Water	2.	1	0	0.00										1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0019

NPS Station ID: TUZI0019 LAT/LON: 34.762142/-112.122976

Location: TRIB. OF BITTER CREEK BELOW DUMP OF U.V. MINE

Station Type: /TYPA/AMBNT/STREAM/SOLIDS/MINE

RMI-Indexes:

RMI-Miles:

HUC: 15060202

Major Basin: COLORADO RIVER

Minor Basin: GILA RIVER

RF1 Index: 15060202

RF3 Index: 15060202002505.59

Description:

THE STATION IS LOCATED ON THE CLARKDALE AZ-YAVAPAI COUNTY 7.5' SERIES (TOPO.) QUADRANGLE. THE SEDIMENT SAMPLING SITE IS AT THE TRIBUTARY OF BITTER CREEK BELOW THE 500-LEVEL DUMP OF THE INACTIVE UNITED VERDE MINE. THE SITE IS LOCATED OUTSIDE OF THE TUZIGOOT NATIONAL MONUMENT (TUZI) BOUNDARY. THE DATA ARE FROM A SITE SCREENING INVESTIGATION REPORT FOR THE PHELPS DODGE VERDE MINE AREA BY ECOLOGY AND ENVIRONMENT, INC. UNDER CONTRACT BY THE EPA. THE STUDY WAS CONDUCTED TO DETERMINE IF METALS ARE BEING RELEASED INTO THE ENVIRONMENT FROM A 116 ACRE TAILINGS PILE WHICH IS ADJACENT TO THE VERDE RIVER AND "CONTAINS APPROXIMATELY 4 MILLION TONS OF MINING WASTES." NPS STAFF ASSIGNED "J" STORET REMARK CODES TO VALUES THAT WERE ESTIMATED FROM ANALYTICAL MEASUREMENTS. FOR MORE INFORMATION CONTACT TUZI AT P.O. BOX 219; CAMP VERDE AZ 86332 (520-634-5564). DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (970-225-3516).

Agency: 11NPSWRD

FIPS State/County: 04025 ARIZONA/YAVAPAI

STORET Station ID(s): TUZI_EPA_EE15

Within Park Boundary: No

Date Created: 11/28/98

Depth of Water: 0

Elevation: 0

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.01

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: TUZI0019

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00938 POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	07/01/92-07/01/92	1 ##	259.5	259.5	259.5	259.5	0.	0.	**	**	**	**
01013 BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	07/01/92-07/01/92	1 ##	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
01038 COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	07/01/92-07/01/92	1 ##	5.05	5.05	5.05	5.05	0.	0.	**	**	**	**
01043 COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	07/01/92-07/01/92	1	513.	513.	513.	513.	0.	0.	**	**	**	**
01052 LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	07/01/92-07/01/92	1	19.	19.	19.	19.	0.	0.	**	**	**	**
01053 MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	07/01/92-07/01/92	1	49.4	49.4	49.4	49.4	0.	0.	**	**	**	**
01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	07/01/92-07/01/92	1 ##	13.05	13.05	13.05	13.05	0.	0.	**	**	**	**
01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	07/01/92-07/01/92	1 ##	2.15	2.15	2.15	2.15	0.	0.	**	**	**	**
01093 ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	07/01/92-07/01/92	1	463.	463.	463.	463.	0.	0.	**	**	**	**
01098 ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	07/01/92-07/01/92	1 ##	27.55	27.55	27.55	27.55	0.	0.	**	**	**	**
01108 ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	07/01/92-07/01/92	1	3570.	3570.	3570.	3570.	0.	0.	**	**	**	**
01153 TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	07/01/92-07/01/92	1 ##	0.36	0.36	0.36	0.36	0.	0.	**	**	**	**
01170 IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	07/01/92-07/01/92	1	306000.	306000.	306000.	306000.	0.	0.	**	**	**	**
04133 MERCURY, BED MAT,DRY WT,SEDIMENT,	07/01/92-07/01/92	1 ##	0.36	0.36	0.36	0.36	0.	0.	**	**	**	**
81373 SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	07/01/92-07/01/92	1	13.8	13.8	13.8	13.8	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: TUZI0020

NPS Station ID: TUZI0020 LAT/LON: 34.762948/-112.095949

Location: CONFLUENCE HOGPEN/SLAUGHTERHOUSE SPGS DRAINAGES

Station Type: /TYPA/AMBNT/STREAM/SOLIDS/MINE

RMI-Indexes:

RMI-Miles:

HUC: 15060202

Major Basin: COLORADO RIVER

Minor Basin: GILA RIVER

RF1 Index: 15060202

RF3 Index: 15060202002505.59

Description:

THE STATION IS LOCATED ON THE CLARKDALE AZ-YAVAPAI COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SEDIMENT SAMPLING SITE IS AT THE CONFLUENCE OF HOGPEN AND SLAUGHTERHOUSE SPRINGS DRAINAGES. THE SITE IS LOCATED OUTSIDE OF THE TUZIGOOT NATIONAL MONUMENT (TUZI) BOUNDARY. THE DATA ARE FROM A SITE SCREENING INVESTIGATION REPORT FOR THE PHELPS DODGE VERDE MINE AREA BY ECOLOGY AND ENVIRONMENT, INC. UNDER CONTRACT BY THE EPA. THE STUDY WAS CONDUCTED TO DETERMINE IF METALS ARE BEING RELEASED INTO THE ENVIRONMENT FROM A 116 ACRE TAILINGS PILE WHICH IS ADJACENT TO THE VERDE RIVER AND "CONTAINS APPROXIMATELY 4 MILLION TONS OF MINING WASTES." NPS STAFF ASSIGNED "J" STORET REMARK CODES TO VALUES THAT WERE ESTIMATED FROM ANALYTICAL MEASUREMENTS. FOR MORE INFORMATION CONTACT TUZIGOOT NATIONAL MONUMENT AT P.O. BOX 219; CAMP VERDE AZ 86332 (520-634-5564). DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (970-225-3516).

Agency: 11NPSWRD

FIPS State/County: 04025 ARIZONA/YAVAPAI

STORET Station ID(s): TUZI_EPA_EE20

Within Park Boundary: No

Date Created: 11/28/98

Depth of Water: 0

Elevation: 0

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.01

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: TUZI0020

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th	
00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	06/30/92-06/30/92	1	114000.	114000.	114000.	114000.	0.	0.	**	**	**	**
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	06/30/92-06/30/92	1	17800.	17800.	17800.	17800.	0.	0.	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/30/92-06/30/92	1	6.2	6.2	6.2	6.2	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/30/92-06/30/92	1	190.	190.	190.	190.	0.	0.	**	**	**	**
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/30/92-06/30/92	1	2.9	2.9	2.9	2.9	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/30/92-06/30/92	1	20.2	20.2	20.2	20.2	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/30/92-06/30/92	1	398.	398.	398.	398.	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/30/92-06/30/92	1	5.7	5.7	5.7	5.7	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/30/92-06/30/92	1	288.	288.	288.	288.	0.	0.	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/30/92-06/30/92	1	44.	44.	44.	44.	0.	0.	**	**	**	**
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/30/92-06/30/92	1 ##	0.375	0.375	0.375	0.375	0.	0.	**	**	**	**
01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	06/30/92-06/30/92	1	35.1	35.1	35.1	35.1	0.	0.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/30/92-06/30/92	1	444.	444.	444.	444.	0.	0.	**	**	**	**
01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	06/30/92-06/30/92	1 ##	4.75	4.75	4.75	4.75	0.	0.	**	**	**	**
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/30/92-06/30/92	1	10900.	10900.	10900.	10900.	0.	0.	**	**	**	**
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/30/92-06/30/92	1 ##	0.65	0.65	0.65	0.65	0.	0.	**	**	**	**
01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	06/30/92-06/30/92	1 ##	0.065	0.065	0.065	0.065	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/30/92-06/30/92	1	22200.	22200.	22200.	22200.	0.	0.	**	**	**	**
04133	MERCURY, BED MAT,DRY WT,SEDIMENT,	06/30/92-06/30/92	1 ##	0.065	0.065	0.065	0.065	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0020

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
81373 SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	06/30/92-06/30/92	1	79.9	79.9	79.9	79.9	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: TUZI0021

NPS Station ID: TUZI0021
 Location: A-16-02 14DAC
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 15060202
 Major Basin:
 Minor Basin:
 RF1 Index: 15060202
 RF3 Index: 15060202090302.06
 Description:

LAT/LON: 34.764448/-112.100837

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 2.05

Agency: 112WRD
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): 344552112060301
 Within Park Boundary: No

Date Created: 07/18/78

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 17.50
 Distance from RF3: 0.04

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: TUZI0021

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/04/78-05/04/78	1	17.	17.	17.	17.	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/04/78-05/04/78	1	2300.	2300.	2300.	2300.	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)	05/04/78-05/04/78	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	05/04/78-05/04/78	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/04/78-05/04/78	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00405 CARBON DIOXIDE (MG/L AS CO2)	05/04/78-05/04/78	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	05/04/78-05/04/78	1	280.	280.	280.	280.	0.	0.	**	**	**	**
00440 BICARBONATE ION (MG/L AS HCO3)	05/04/78-05/04/78	1	340.	340.	340.	340.	0.	0.	**	**	**	**
00445 CARBONATE ION (MG/L AS CO3)	05/04/78-05/04/78	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00631 NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/04/78-05/04/78	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00660 PHOSPHATE, ORTHO (MG/L AS PO4)	05/04/78-05/04/78	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/04/78-05/04/78	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	05/04/78-05/04/78	1	1700.	1700.	1700.	1700.	0.	0.	**	**	**	**
00902 HARDNESS, NON-CARBONATE (MG/L AS CaCO3)	05/04/78-05/04/78	1	1400.	1400.	1400.	1400.	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	05/04/78-05/04/78	1	350.	350.	350.	350.	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS Mg)	05/04/78-05/04/78	1	190.	190.	190.	190.	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS Na)	05/04/78-05/04/78	1	36.	36.	36.	36.	0.	0.	**	**	**	**
00931 SODIUM ADSORPTION RATIO	05/04/78-05/04/78	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00932 SODIUM, PERCENT	05/04/78-05/04/78	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	05/04/78-05/04/78	1	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
00940 CHLORIDE, TOTAL IN WATER MG/L	05/04/78-05/04/78	1	38.	38.	38.	38.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	05/04/78-05/04/78	1	1300.	1300.	1300.	1300.	0.	0.	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	05/04/78-05/04/78	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SiO2)	05/04/78-05/04/78	1	26.	26.	26.	26.	0.	0.	**	**	**	**
01020 BORON, DISSOLVED (UG/L AS B)	05/04/78-05/04/78	1	50.	50.	50.	50.	0.	0.	**	**	**	**
01046 IRON, DISSOLVED (UG/L AS Fe)	05/04/78-05/04/78	1	40.	40.	40.	40.	0.	0.	**	**	**	**
01056 MANGANESE, DISSOLVED (UG/L AS Mn)	05/04/78-05/04/78	1	20.	20.	20.	20.	0.	0.	**	**	**	**
70301 SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/04/78-05/04/78	1	2110.	2110.	2110.	2110.	0.	0.	**	**	**	**
70303 SOLIDS, DISSOLVED-TONS PER ACRE-FT	05/04/78-05/04/78	1	2.87	2.87	2.87	2.87	0.	0.	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS Hg)	05/04/78-05/04/78	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0021

Parameter	Std. Type	Std. Value	Total			-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
			Obs	Exceed Standard	Prop. Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400 PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
	Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
00631 NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00							1	0	0.00			
	Fresh Acute	860.	1	0	0.00							1	0	0.00			
00940 CHLORIDE,TOTAL IN WATER	Drinking Water	250.	1	0	0.00							1	0	0.00			
	Drinking Water	250.	1	1	1.00							1	1	1.00			
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	4.	1	0	0.00							1	0	0.00			
00950 FLUORIDE, DISSOLVED AS F	Fresh Acute	2.4	1	0	0.00							1	0	0.00			
71900 MERCURY, TOTAL	Drinking Water	2.	1	0	0.00							1	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0022

NPS Station ID: TUZI0022 LAT/LON: 34.764753/-112.035837

Location: VERDE RIVER BETWEEN DIVERSION AND AREA OF SEEP.

Station Type: /TYPA/AMBNT/STREAM/SOLIDS/MINE

RMI-Indexes:

RMI-Miles:

HUC: 15060202

Major Basin: COLORADO RIVER

Minor Basin: GILA RIVER

RF1 Index: 15060202

RF3 Index: 15060202002505.59

Description:

THE STATION IS LOCATED ON THE CLARKDALE AZ-YAVAPAI COUNTY 7.5 MINUTE VERDE RIVER BETWEEN THE DIVERSION DITCH AND THE AREA OF SEEPAGE. THE SITE IS LOCATED OUTSIDE OF THE TUZIGOOT NATIONAL MONUMENT BOUNDARY. THE DATA ARE FROM A SITE SCREENING INVESTIGATION REPORT FOR THE PHELPS DODGE VERDE MINE AREA BY ECOLOGY AND ENVIRONMENT, INC. UNDER CONTRACT BY THE EPA. THE STUDY WAS CONDUCTED TO DETERMINE IF METALS ARE BEING RELEASED INTO THE ENVIRONMENT FROM A 116 ACRE TAILINGS PILE WHICH IS ADJACENT TO THE VERDE RIVER AND "CONTAINS APPROXIMATELY 4 MILLION TONS OF MINING WASTES." NPS STAFF ASSIGNED "J" STORET REMARK CODES TO VALUES THAT WERE ESTIMATED FROM ANALYTICAL MEASUREMENTS. FOR MORE INFORMATION CONTACT TUZIGOOT NATIONAL MONUMENT AT P.O. BOX 219; CAMP VERDE AZ 86332 (520-634-5564). DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (970-225-3516).

Agency: 11NPSWRD

FIPS State/County: 04025 ARIZONA/YAVAPAI

STORET Station ID(s): TUZI_EPA_EE22

Within Park Boundary: No

Date Created: 11/28/98

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 6.29

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.01

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: TUZI0022

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00917 CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	06/30/92-06/30/92	1	48800.	48800.	48800.	48800.	0.	0.	**	**	**	**
00924 MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	06/30/92-06/30/92	1	9740.	9740.	9740.	9740.	0.	0.	**	**	**	**
01003 ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/30/92-06/30/92	1	5.7	5.7	5.7	5.7	0.	0.	**	**	**	**
01008 BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/30/92-06/30/92	1	247.	247.	247.	247.	0.	0.	**	**	**	**
01028 CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/30/92-06/30/92	1 ##	0.395	0.395	0.395	0.395	0.	0.	**	**	**	**
01029 CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/30/92-06/30/92	1	8.9	8.9	8.9	8.9	0.	0.	**	**	**	**
01043 COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/30/92-06/30/92	1	31.4	31.4	31.4	31.4	0.	0.	**	**	**	**
01052 LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/30/92-06/30/92	1	3.4	3.4	3.4	3.4	0.	0.	**	**	**	**
01053 MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/30/92-06/30/92	1	139.	139.	139.	139.	0.	0.	**	**	**	**
01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/30/92-06/30/92	1	26.5	26.5	26.5	26.5	0.	0.	**	**	**	**
01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/30/92-06/30/92	1 ##	0.395	0.395	0.395	0.395	0.	0.	**	**	**	**
01088 VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	06/30/92-06/30/92	1	15.6	15.6	15.6	15.6	0.	0.	**	**	**	**
01093 ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/30/92-06/30/92	1	105.	105.	105.	105.	0.	0.	**	**	**	**
01098 ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	06/30/92-06/30/92	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01108 ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/30/92-06/30/92	1	5870.	5870.	5870.	5870.	0.	0.	**	**	**	**
01148 SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/30/92-06/30/92	1 ##	0.65	0.65	0.65	0.65	0.	0.	**	**	**	**
01153 TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	06/30/92-06/30/92	1 ##	0.065	0.065	0.065	0.065	0.	0.	**	**	**	**
01170 IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/30/92-06/30/92	1	8020.	8020.	8020.	8020.	0.	0.	**	**	**	**
04133 MERCURY, BED MAT,DRY WT,SEDIMENT,	06/30/92-06/30/92	1 ##	0.065	0.065	0.065	0.065	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0022

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
81373 SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	06/30/92-06/30/92	1	76.	76.	76.	76.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: TUZI0023

NPS Station ID: TUZI0023 LAT/LON: 34.764866/-112.021698

Location: VERDE RIVER 1 KM BELOW LEFT BANK SEEPS

Station Type: /TYPA/AMBNT/STREAM/MINE

RMI-Indexes:

RMI-Miles:

HUC: 15060202

Major Basin: COLORADO RIVER

Minor Basin: GILA RIVER

RF1 Index: 15060202

RF3 Index: 15060202002505.59

Description:

THE STATION IS LOCATED ON THE CLARKDALE AZ-YAVAPAI COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS LOCATED AT THE VERDE RIVER 1 KILOMETER BELOW THE LEFT BANK SEEPS AND IS REFERRED TO AS SITE VRZ-5 IN THE REPORT. THIS STATION IS LOCATED OUTSIDE THE TUZIGOOT NATIONAL MONUMENT BOUNDARY. THE DATA ARE FROM AN INVESTIGATION REPORT BY THE ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY IN 1989. THE INVESTIGATION WAS CONDUCTED IN DECEMBER OF 1988 DUE TO A COMPLAINT "CONCERNING DISCHARGE FROM A TAILINGS PILE LOCATED BETWEEN DEAD HORSE RANCH STATE PARK AND TUZIGOOT NATIONAL MONUMENT." FOR MORE INFORMATION CONTACT THE ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY WATER QUALITY DIVISION; 3033 N. CENTRAL AVENUE; PHOENIX AZ 85012 (TEL. 602-207-4416). FOR INFORMATION ON TUZIGOOT CONTACT THE CHIEF OF RESOURCES AT P.O. BOX 219; CAMP VERDE AZ 86332 (TEL. 520-634-5564). DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NPS WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE STE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Agency: 11NPSWRD

FIPS State/County: 04025 ARIZONA/YAVAPAI

STORET Station ID(s): TUZI_ADEQ_VRZ-5

Within Park Boundary: No

Date Created: 11/28/98

Depth of Water: 0

Elevation: 0

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.01

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: TUZI0023

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/06/88-12/06/88	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS CFS	12/06/88-12/06/88	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00094 SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	12/06/88-12/06/88	1	685.	685.	685.	685.	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/06/88-12/06/88	1	650.	650.	650.	650.	0.	0.	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	12/06/88-12/06/88	1	10.6	10.6	10.6	10.6	0.	0.	**	**	**	**
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION %	12/06/88-12/06/88	1	109.4	109.4	109.4	109.4	0.	0.	**	**	**	**
00403 PH, LAB, STANDARD UNITS SU	12/06/88-12/06/88	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	12/06/88-12/06/88	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/06/88-12/06/88	1	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
00406 PH, FIELD, STANDARD UNITS SU	12/06/88-12/06/88	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00406 CONVERTED PH, FIELD, STANDARD UNITS	12/06/88-12/06/88	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00406 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/06/88-12/06/88	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	12/06/88-12/06/88	1	252.	252.	252.	252.	0.	0.	**	**	**	**
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)	12/06/88-12/06/88	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00440 BICARBONATE ION (MG/L AS HCO3)	12/06/88-12/06/88	1	298.	298.	298.	298.	0.	0.	**	**	**	**
00445 CARBONATE ION (MG/L AS CO3)	12/06/88-12/06/88	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/06/88-12/06/88	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/06/88-12/06/88	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	12/06/88-12/06/88	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0023

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th	
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	12/06/88-12/06/88	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	12/06/88-12/06/88	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CaCO3)	12/06/88-12/06/88	1	313.	313.	313.	313.	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS Ca)	12/06/88-12/06/88	1	54.1	54.1	54.1	54.1	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS Mg)	12/06/88-12/06/88	1	45.7	45.7	45.7	45.7	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS Na)	12/06/88-12/06/88	1	25.6	25.6	25.6	25.6	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	12/06/88-12/06/88	1	2.53	2.53	2.53	2.53	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	12/06/88-12/06/88	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	12/06/88-12/06/88	1	89.	89.	89.	89.	0.	0.	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	12/06/88-12/06/88	1	0.27	0.27	0.27	0.27	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	12/06/88-12/06/88	1	13.	13.	13.	13.	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	12/06/88-12/06/88	1	150.	150.	150.	150.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	12/06/88-12/06/88	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
01022	BORON, TOTAL (UG/L AS B)	12/06/88-12/06/88	1	330.	330.	330.	330.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	12/06/88-12/06/88	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	12/06/88-12/06/88	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	12/06/88-12/06/88	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	12/06/88-12/06/88	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	12/06/88-12/06/88	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	12/06/88-12/06/88	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	12/06/88-12/06/88	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	12/06/88-12/06/88	1	1090.	1090.	1090.	1090.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	12/06/88-12/06/88	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	12/06/88-12/06/88	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01097	ANTIMONY, TOTAL (UG/L AS SB)	12/06/88-12/06/88	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	12/06/88-12/06/88	1 ##	250.	250.	250.	250.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	12/06/88-12/06/88	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	12/06/88-12/06/88	1	411.	411.	411.	411.	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	12/06/88-12/06/88	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	12/06/88-12/06/88	1	4.2	4.2	4.2	4.2	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0023

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00								
00403	PH, LAB	Fresh Chronic	9.	1	0	0.00	1	0	0.00								
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00								
00406	PH, FIELD	Fresh Chronic	9.	1	0	0.00	1	0	0.00								
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00								
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	1	0	0.00	1	0	0.00								
00940	CHLORIDE, TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00								
		Drinking Water	250.	1	0	0.00	1	0	0.00								
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00								
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	1	0	0.00	1	0	0.00								
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00	1	0	0.00								
		Drinking Water	50.	1	0	0.00	1	0	0.00								
01007	BARIUM, TOTAL	Drinking Water	2000.	1	0	0.00	1	0	0.00								
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00	1	0	0.00								
		Drinking Water	4.	1	0	0.00	1	0	0.00								
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00	1	0	0.00								
		Drinking Water	5.	1	0	0.00	1	0	0.00								
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00	1	0	0.00								
01042	COPPER, TOTAL	Fresh Acute	18.	1	0	0.00	1	0	0.00								
		Drinking Water	1300.	1	0	0.00	1	0	0.00								
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00	1	0	0.00								
		Drinking Water	15.	1	0	0.00	1	0	0.00								
01059	THALLIUM, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00								
		Drinking Water	2.	0 &	0	0.00											

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: TUZI0023

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
01067	NICKEL, TOTAL																
	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
	Drinking Water	100.	1	1	1.00	1	1	1.00									
01077	SILVER, TOTAL																
	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
	Drinking Water	100.	1	0	0.00	1	0	0.00									
01092	ZINC, TOTAL																
	Fresh Acute	120.	1	0	0.00	1	0	0.00									
	Drinking Water	5000.	1	0	0.00	1	0	0.00									
01097	ANTIMONY, TOTAL																
	Fresh Acute	88.	1	0	0.00	1	0	0.00									
	Drinking Water	6.	1	0	0.00	1	0	0.00									
01147	SELENIUM, TOTAL																
	Fresh Acute	20.	1	0	0.00	1	0	0.00									
	Drinking Water	50.	1	0	0.00	1	0	0.00									
71900	MERCURY, TOTAL																
	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
	Drinking Water	2.	1	0	0.00	1	0	0.00									
82079	TURBIDITY, LAB																
	Other-Hi Lim.	50.	1	0	0.00	1	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0024

NPS Station ID: TUZI0024 Location: VERDE RIVER ALONG AREA OF SEEPAGE Station Type: /TYPA/AMBNT/SPRING/SOLIDS/MINE RMI-Indexes: RMI-Miles: HUC: 15060202 Major Basin: COLORADO RIVER Minor Basin: GILA RIVER RF1 Index: 15060202 RF3 Index: 15060202002505.59 Description: THE STATION IS LOCATED ON THE CLARKDALE AZ-YAVAPAI COUNTY 7.5 MINUTE VERDE RIVER ALONG AN AREA OF SEEPAGE. THE SITE IS LOCATED WITHIN THE SCREENING INVESTIGATION REPORT FOR THE PHELPS DODGE VERDE MINE AREA WAS CONDUCTED TO DETERMINE IF METALS ARE BEING RELEASED INTO THE RIVER AND "CONTAINS APPROXIMATELY 4 MILLION TONS OF MINING WASTES." ESTIMATED FROM ANALYTICAL MEASUREMENTS. FOR MORE INFORMATION CONTACT (520-634-5564). DATA WERE PROCESSED AND UPLOADED TO STORET BY 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (970-225-3516).	LAT/LON: 34.765281/-112.030865 Depth of Water: 0 Elevation: 0 RF1 Mile Point: 0.000 RF3 Mile Point: 6.29	Agency: 11NPSWRD FIPS State/County: 04025 ARIZONA/YAVAPAI STORET Station ID(s): TUZI_EPA_EE10 Within Park Boundary: Yes Aquifer: Water Body Id: ECO Region: Distance from RF1: 0.00 Distance from RF3: 0.01	Date Created: 11/28/98 On/Off RF1: On/Off RF3:
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Parameter Inventory for Station: TUZI0024

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00917 CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	06/29/92-06/29/92	1	128000.	128000.	128000.	128000.	0.	0.	**	**	**	**
00924 MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	06/29/92-06/29/92	1	11800.	11800.	11800.	11800.	0.	0.	**	**	**	**
00938 POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	06/29/92-06/29/92	1	3390.	3390.	3390.	3390.	0.	0.	**	**	**	**
01003 ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/29/92-06/29/92	1	11.7	11.7	11.7	11.7	0.	0.	**	**	**	**
01008 BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/29/92-06/29/92	1	294.	294.	294.	294.	0.	0.	**	**	**	**
01029 CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/29/92-06/29/92	1	27.2	27.2	27.2	27.2	0.	0.	**	**	**	**
01043 COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/29/92-06/29/92	1	94.6	94.6	94.6	94.6	0.	0.	**	**	**	**
01052 LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/29/92-06/29/92	1	28.5	28.5	28.5	28.5	0.	0.	**	**	**	**
01053 MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/29/92-06/29/92	1	513.	513.	513.	513.	0.	0.	**	**	**	**
01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/29/92-06/29/92	1 ##	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
01088 VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	06/29/92-06/29/92	1	36.5	36.5	36.5	36.5	0.	0.	**	**	**	**
01108 ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/29/92-06/29/92	1	18200.	18200.	18200.	18200.	0.	0.	**	**	**	**
01148 SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/29/92-06/29/92	1 ##	1.35	1.35	1.35	1.35	0.	0.	**	**	**	**
01153 TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	06/29/92-06/29/92	1 ##	0.135	0.135	0.135	0.135	0.	0.	**	**	**	**
01170 IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/29/92-06/29/92	1	17600.	17600.	17600.	17600.	0.	0.	**	**	**	**
04133 MERCURY, BED MAT,DRY WT,SEDIMENT,	06/29/92-06/29/92	1 ##	0.135	0.135	0.135	0.135	0.	0.	**	**	**	**
81373 SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	06/29/92-06/29/92	1	37.6	37.6	37.6	37.6	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: TUZI0025

NPS Station ID: TUZI0025 Location: VERDE RIVER ALONG AREA OF SEEPAGE Station Type: /TYPA/AMBNT/SPRING/SOLIDS/MINE RMI-Indexes: RMI-Miles: HUC: 15060202 Major Basin: COLORADO RIVER Minor Basin: GILA RIVER RF1 Index: 15060202 RF3 Index: 15060202002505.59 Description: THE STATION IS LOCATED ON THE CLARKDALE AZ-YAVAPAI COUNTY 7.5 MINUTE VERDE RIVER ALONG AN AREA OF SEEPAGE. THE SITE IS LOCATED WITHIN THE SCREENING INVESTIGATION REPORT FOR THE PHELPS DODGE VERDE MINE AREA WAS CONDUCTED TO DETERMINE IF METALS ARE BEING RELEASED INTO THE RIVER AND "CONTAINS APPROXIMATELY 4 MILLION TONS OF MINING WASTES." ESTIMATED FROM ANALYTICAL MEASUREMENTS. FOR MORE INFORMATION CONTACT (520-634-5564). DATA WERE PROCESSED AND UPLOADED TO STORET BY 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (970-225-3516).	LAT/LON: 34.765365/-112.030004 Depth of Water: 0 Elevation: 0 RF1 Mile Point: 0.000 RF3 Mile Point: 6.29	Agency: 11NPSWRD FIPS State/County: 04025 ARIZONA/YAVAPAI STORET Station ID(s): TUZI_EPA_EE12 Within Park Boundary: Yes Aquifer: Water Body Id: ECO Region: Distance from RF1: 0.00 Distance from RF3: 0.01	Date Created: 11/28/98 On/Off RF1: On/Off RF3:
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Parameter Inventory for Station: TUZI0025

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th	
00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	06/30/92-06/30/92	2	90750.	90750.	94600.	86900.	29645000.	5444.722	**	**	**	**
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	06/30/92-06/30/92	2	13100.	13100.	13700.	12500.	720000.	848.528	**	**	**	**
00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	06/30/92-06/30/92	1	3350.	3350.	3350.	3350.	0.	0.	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/30/92-06/30/92	2	10.05	10.05	11.6	8.5	4.805	2.192	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/30/92-06/30/92	2	171.5	171.5	183.	160.	264.5	16.263	**	**	**	**
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/30/92-06/30/92	1	3.5	3.5	3.5	3.5	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/30/92-06/30/92	2	24.2	24.2	27.5	20.9	21.78	4.667	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/30/92-06/30/92	2	73.55	73.55	79.6	67.5	73.205	8.556	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/30/92-06/30/92	2	22.4	22.4	30.8	14.	141.12	11.879	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/30/92-06/30/92	2	237.5	237.5	264.	211.	1404.5	37.477	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/30/92-06/30/92	1	32.5	32.5	32.5	32.5	0.	0.	**	**	**	**
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/30/92-06/30/92	2 ##	0.925	0.925	0.95	0.9	0.001	0.035	**	**	**	**
01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	06/30/92-06/30/92	2	32.2	32.2	33.2	31.2	2.	1.414	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/30/92-06/30/92	2	507.5	507.5	509.	506.	4.5	2.121	**	**	**	**
01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	06/30/92-06/30/92	2 ##	11.825	11.825	11.95	11.7	0.031	0.177	**	**	**	**
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/30/92-06/30/92	2	16300.	16300.	17100.	15500.	1280000.	1131.371	**	**	**	**
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/30/92-06/30/92	1 ##	1.55	1.55	1.55	1.55	0.	0.	**	**	**	**
01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	06/30/92-06/30/92	2 ##	0.155	0.155	0.155	0.155	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/30/92-06/30/92	2	15000.	15000.	15800.	14200.	1280000.	1131.371	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0025

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
04133 MERCURY, BED MAT, DRY WT, SEDIMENT,	06/30/92-06/30/92	2 ##	0.155	0.155	0.155	0.155	0.	0.	**	**	**	**
81373 SOLIDS IN SEDIMENT SAMPLE PERCENT DRY WEIGHT (%)	06/30/92-06/30/92	2	32.15	32.15	32.5	31.8	0.245	0.495	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: TUZI0026

NPS Station ID: TUZI0026 LAT/LON: 34.765365/-112.030892

Location: N ARM VERDE RIVER 60 M ABOVE LEFT BANK SEEPS

Station Type: /TYPA/AMBNT/STREAM/MINE

RMI-Indexes:

RMI-Miles:

HUC: 15060202

Major Basin: COLORADO RIVER

Minor Basin: GILA RIVER

RF1 Index: 15060202

RF3 Index: 15060202002505.59

Description:

THE STATION IS LOCATED ON THE CLARKDALE AZ-YAVAPAI COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS LOCATED AT THE NORTH ARM OF THE VERDE RIVER; 60 METERS ABOVE THE LEFT BANK SEEPS AND IS REFERRED TO AS SITE VRZ-1 IN THE REPORT. THIS STATION IS LOCATED WITHIN THE TUZIGOOT NATIONAL MONUMENT BOUNDARY. THE DATA ARE FROM AN INVESTIGATION REPORT BY THE ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY IN 1989. THE INVESTIGATION WAS CONDUCTED IN DECEMBER OF 1988 DUE TO A COMPLAINT "CONCERNING DISCHARGE FROM A TAILINGS PILE LOCATED BETWEEN DEAD HORSE RANCH STATE PARK AND TUZIGOOT NATIONAL MONUMENT." FOR MORE INFORMATION CONTACT THE ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY WATER QUALITY DIVISION; 3033 N. CENTRAL AVENUE; PHOENIX AZ 85012 (TEL. 602-207-4416). FOR INFORMATION ON TUZIGOOT CONTACT THE CHIEF OF RESOURCES AT P.O. BOX 219; CAMP VERDE AZ 86332 (TEL. 520-634-5564). DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NPS WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE STE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Agency: 11NPSWRD

FIPS State/County: 04025 ARIZONA/YAVAPAI

STORET Station ID(s): TUZI_ADEQ_VRZ-1

Within Park Boundary: Yes

Date Created: 11/28/98

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 6.29

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.01

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: TUZI0026

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/06/88-12/06/88	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS CFS	12/06/88-12/06/88	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00094 SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	12/06/88-12/06/88	1	545.	545.	545.	545.	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/06/88-12/06/88	1	512.	512.	512.	512.	0.	0.	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	12/06/88-12/06/88	1	10.6	10.6	10.6	10.6	0.	0.	**	**	**	**
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION %	12/06/88-12/06/88	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00403 PH, LAB, STANDARD UNITS SU	12/06/88-12/06/88	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	12/06/88-12/06/88	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/06/88-12/06/88	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
00406 PH, FIELD, STANDARD UNITS SU	12/06/88-12/06/88	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00406 CONVERTED PH, FIELD, STANDARD UNITS	12/06/88-12/06/88	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00406 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/06/88-12/06/88	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	12/06/88-12/06/88	1	247.	247.	247.	247.	0.	0.	**	**	**	**
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)	12/06/88-12/06/88	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
00440 BICARBONATE ION (MG/L AS HCO3)	12/06/88-12/06/88	1	301.	301.	301.	301.	0.	0.	**	**	**	**
00445 CARBONATE ION (MG/L AS CO3)	12/06/88-12/06/88	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/06/88-12/06/88	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/06/88-12/06/88	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	12/06/88-12/06/88	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0026

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th	
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	12/06/88-12/06/88	1	0.14	0.14	0.14	0.14	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	12/06/88-12/06/88	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CaCO3)	12/06/88-12/06/88	1	257.	257.	257.	257.	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS Ca)	12/06/88-12/06/88	1	53.7	53.7	53.7	53.7	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	12/06/88-12/06/88	1	26.1	26.1	26.1	26.1	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS Na)	12/06/88-12/06/88	1	26.5	26.5	26.5	26.5	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	12/06/88-12/06/88	1	2.4	2.4	2.4	2.4	0.	0.	**	**	**	**
00940	CHLORIDE, TOTAL IN WATER MG/L	12/06/88-12/06/88	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	12/06/88-12/06/88	1	27.	27.	27.	27.	0.	0.	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	12/06/88-12/06/88	1	0.24	0.24	0.24	0.24	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	12/06/88-12/06/88	1	13.	13.	13.	13.	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	12/06/88-12/06/88	1	160.	160.	160.	160.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	12/06/88-12/06/88	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
01022	BORON, TOTAL (UG/L AS B)	12/06/88-12/06/88	1	270.	270.	270.	270.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	12/06/88-12/06/88	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	12/06/88-12/06/88	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	12/06/88-12/06/88	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	12/06/88-12/06/88	1	230.	230.	230.	230.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	12/06/88-12/06/88	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	12/06/88-12/06/88	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	12/06/88-12/06/88	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	12/06/88-12/06/88	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	12/06/88-12/06/88	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	12/06/88-12/06/88	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01097	ANTIMONY, TOTAL (UG/L AS SB)	12/06/88-12/06/88	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	12/06/88-12/06/88	1 ##	250.	250.	250.	250.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	12/06/88-12/06/88	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C),MG/L	12/06/88-12/06/88	1	301.	301.	301.	301.	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	12/06/88-12/06/88	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
82079	TURBIDITY, LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	12/06/88-12/06/88	1	6.7	6.7	6.7	6.7	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0026

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00								
00403	PH, LAB	Fresh Chronic	9.	1	0	0.00	1	0	0.00								
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00								
00406	PH, FIELD	Fresh Chronic	9.	1	0	0.00	1	0	0.00								
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00								
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	1	0	0.00	1	0	0.00								
00940	CHLORIDE, TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00								
		Drinking Water	250.	1	0	0.00	1	0	0.00								
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00								
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	1	0	0.00	1	0	0.00								
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00	1	0	0.00								
		Drinking Water	50.	1	0	0.00	1	0	0.00								
01007	BARIUM, TOTAL	Drinking Water	2000.	1	0	0.00	1	0	0.00								
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00	1	0	0.00								
		Drinking Water	4.	1	0	0.00	1	0	0.00								
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00	1	0	0.00								
		Drinking Water	5.	1	0	0.00	1	0	0.00								
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00	1	0	0.00								
01042	COPPER, TOTAL	Fresh Acute	18.	1	0	0.00	1	0	0.00								
		Drinking Water	1300.	1	0	0.00	1	0	0.00								
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00	1	0	0.00								
		Drinking Water	15.	1	0	0.00	1	0	0.00								
01059	THALLIUM, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00								
		Drinking Water	2.	0 &	0	0.00											

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: TUZI0026

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
01067	NICKEL, TOTAL																
	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
	Drinking Water	100.	1	0	0.00	1	0	0.00									
01077	SILVER, TOTAL																
	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
	Drinking Water	100.	1	0	0.00	1	0	0.00									
01092	ZINC, TOTAL																
	Fresh Acute	120.	1	0	0.00	1	0	0.00									
	Drinking Water	5000.	1	0	0.00	1	0	0.00									
01097	ANTIMONY, TOTAL																
	Fresh Acute	88.	1	0	0.00	1	0	0.00									
	Drinking Water	6.	1	0	0.00	1	0	0.00									
01147	SELENIUM, TOTAL																
	Fresh Acute	20.	1	0	0.00	1	0	0.00									
	Drinking Water	50.	1	0	0.00	1	0	0.00									
71900	MERCURY, TOTAL																
	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
	Drinking Water	2.	1	0	0.00	1	0	0.00									
82079	TURBIDITY, LAB																
	Other-Hi Lim.	50.	1	0	0.00	1	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0027

NPS Station ID: TUZI0027 Location: SEEP ON LEFT BANK OF VERDE RIVER Station Type: /TYPA/AMBNT/SPRING/MINE RMI-Indexes: RMI-Miles: HUC: 15060202 Major Basin: COLORADO RIVER Minor Basin: GILA RIVER RF1 Index: 15060202 RF3 Index: 15060202002505.59 Description:	LAT/LON: 34.765392/-112.029948 Depth of Water: 0 Elevation: 0 RF1 Mile Point: 0.000 RF3 Mile Point: 6.29	Agency: 11NPSWRD FIPS State/County: 04025 ARIZONA/YAVAPAI STORET Station ID(s): TUZI_ADEQ_VRZ-4 Within Park Boundary: Yes Aquifer: Water Body Id: ECO Region: Distance from RF1: 0.00 Distance from RF3: 0.01
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Date Created: 11/28/98

On/Off RF1:
On/Off RF3:

THE STATION IS LOCATED ON THE CLARKDALE AZ-YAVAPAI COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS LOCATED AT A SEEP ON THE LEFT BANK OF THE VERDE RIVER AND IS REFERRED TO AS SITE VRZ-4 IN THE REPORT. THIS STATION IS LOCATED WITHIN THE TUZIGOOT NATIONAL MONUMENT BOUNDARY. THE DATA ARE FROM AN INVESTIGATION REPORT BY THE ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY IN 1989. THE INVESTIGATION WAS CONDUCTED IN DECEMBER OF 1988 DUE TO A COMPLAINT "CONCERNING DISCHARGE FROM A TAILINGS PILE LOCATED BETWEEN DEAD HORSE RANCH STATE PARK AND TUZIGOOT NATIONAL MONUMENT." FOR MORE INFORMATION CONTACT THE ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY WATER QUALITY DIVISION; 3033 NORTH CENTRAL AVENUE; PHOENIX AZ 85012 (TEL. 602-207-4416). FOR INFORMATION ON TUZIGOOT CONTACT THE CHIEF OF RESOURCES AT P.O. BOX 219; CAMP VERDE AZ 86332 (TEL. 520-634-5564). DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NPS WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: TUZI0027

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/06/88-12/06/88	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00094 SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	12/06/88-12/06/88	1	19600.	19600.	19600.	19600.	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/06/88-12/06/88	1	18560.	18560.	18560.	18560.	0.	0.	**	**	**	**
00403 PH, LAB, STANDARD UNITS SU	12/06/88-12/06/88	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	12/06/88-12/06/88	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/06/88-12/06/88	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
00406 PH, FIELD, STANDARD UNITS SU	12/06/88-12/06/88	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00406 CONVERTED PH, FIELD, STANDARD UNITS	12/06/88-12/06/88	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00406 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/06/88-12/06/88	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	12/06/88-12/06/88	1	921.	921.	921.	921.	0.	0.	**	**	**	**
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)	12/06/88-12/06/88	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
00440 BICARBONATE ION (MG/L AS HCO3)	12/06/88-12/06/88	1	1120.	1120.	1120.	1120.	0.	0.	**	**	**	**
00445 CARBONATE ION (MG/L AS CO3)	12/06/88-12/06/88	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/06/88-12/06/88	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/06/88-12/06/88	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	12/06/88-12/06/88	1	1.44	1.44	1.44	1.44	0.	0.	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	12/06/88-12/06/88	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	12/06/88-12/06/88	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	12/06/88-12/06/88	1	23000.	23000.	23000.	23000.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0027

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00916	CALCIUM, TOTAL (MG/L AS CA)	12/06/88-12/06/88	1	254.	254.	254.	254.	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	12/06/88-12/06/88	1	5430.	5430.	5430.	5430.	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	12/06/88-12/06/88	1	197.	197.	197.	197.	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	12/06/88-12/06/88	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	12/06/88-12/06/88	1	93.	93.	93.	93.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	12/06/88-12/06/88	1	20500.	20500.	20500.	20500.	0.	0.	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	12/06/88-12/06/88	1	0.43	0.43	0.43	0.43	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	12/06/88-12/06/88	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	12/06/88-12/06/88	1##	50.	50.	50.	50.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	12/06/88-12/06/88	1##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
01022	BORON, TOTAL (UG/L AS B)	12/06/88-12/06/88	1	610.	610.	610.	610.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	12/06/88-12/06/88	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	12/06/88-12/06/88	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	12/06/88-12/06/88	1	42.	42.	42.	42.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	12/06/88-12/06/88	1	310.	310.	310.	310.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	12/06/88-12/06/88	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	12/06/88-12/06/88	1	300.	300.	300.	300.	0.	0.	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	12/06/88-12/06/88	1##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	12/06/88-12/06/88	1##	25.	25.	25.	25.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	12/06/88-12/06/88	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	12/06/88-12/06/88	1	1470.	1470.	1470.	1470.	0.	0.	**	**	**	**
01097	ANTIMONY, TOTAL (UG/L AS SB)	12/06/88-12/06/88	1##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	12/06/88-12/06/88	1##	250.	250.	250.	250.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	12/06/88-12/06/88	1##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	12/06/88-12/06/88	1	29600.	29600.	29600.	29600.	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	12/06/88-12/06/88	1##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	12/06/88-12/06/88	1	2.8	2.8	2.8	2.8	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0027

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00403	PH, LAB	Fresh Chronic	9.	1	0	0.00	1	0	0.00								
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00								
00406	PH, FIELD	Fresh Chronic	9.	1	0	0.00	1	0	0.00								
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00								
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	1	0	0.00	1	0	0.00								
		Fresh Acute	860.	1	0	0.00	1	0	0.00								
00940	CHLORIDE, TOTAL IN WATER	Drinking Water	250.	1	0	0.00	1	0	0.00								
		Fresh Acute	250.	1	1	1.00	1	1	1.00								
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00								
		Fresh Acute	4.	1	0	0.00	1	0	0.00								
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	1	0	0.00	1	0	0.00								
		Fresh Acute	360.	1	0	0.00	1	0	0.00								
01002	ARSENIC, TOTAL	Drinking Water	50.	1	0	0.00	1	0	0.00								
		Fresh Acute	2000.	1	0	0.00	1	0	0.00								
01007	BARIUM, TOTAL	Drinking Water	130.	1	0	0.00	1	0	0.00								
		Fresh Acute	4.	1	0	0.00	1	0	0.00								
01012	BERYLLIUM, TOTAL	Drinking Water	4.	1	0	0.00	1	0	0.00								
		Fresh Acute	130.	1	0	0.00	1	0	0.00								
01027	CADMIUM, TOTAL	Drinking Water	4.	1	0	0.00	1	0	0.00								
		Fresh Acute	3.9	1	0	0.00	1	0	0.00								
01034	CHROMIUM, TOTAL	Drinking Water	5.	1	0	0.00	1	0	0.00								
		Fresh Acute	100.	1	0	0.00	1	0	0.00								
01042	COPPER, TOTAL	Drinking Water	18.	1	1	1.00	1	1	1.00								
		Fresh Acute	1300.	1	0	0.00	1	0	0.00								
01051	LEAD, TOTAL	Drinking Water	82.	1	0	0.00	1	0	0.00								
		Fresh Acute	15.	1	0	0.00	1	0	0.00								
01059	THALLIUM, TOTAL	Drinking Water	1400.	1	0	0.00	1	0	0.00								
		Fresh Acute	2.	0 &	0	0.00											
01067	NICKEL, TOTAL	Drinking Water	1400.	1	0	0.00	1	0	0.00								
		Fresh Acute	100.	1	0	0.00	1	0	0.00								
01077	SILVER, TOTAL	Drinking Water	4.1	1	0	0.00	1	0	0.00								
		Fresh Acute	100.	1	0	0.00	1	0	0.00								

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: TUZI0027

Parameter	Std. Type	Std. Value	Total		Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
			Obs				Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
01092 ZINC, TOTAL	Fresh Acute	120.	1		1	1.00	1	1	1.00									
	Drinking Water	5000.	1		0	0.00	1	0	0.00									
01097 ANTIMONY, TOTAL	Fresh Acute	88.	1		0	0.00	1	0	0.00									
	Drinking Water	6.	1		0	0.00	1	0	0.00									
01147 SELENIUM, TOTAL	Fresh Acute	20.	1		0	0.00	1	0	0.00									
	Drinking Water	50.	1		0	0.00	1	0	0.00									
71900 MERCURY, TOTAL	Fresh Acute	2.4	1		0	0.00	1	0	0.00									
	Drinking Water	2.	1		0	0.00	1	0	0.00									
82079 TURBIDITY, LAB	Other-Hi Lim.	50.	1		0	0.00	1	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0028

NPS Station ID: TUZI0028 Location: VERDE RIVER ALONG AREA OF SEEPAGE Station Type: /TYPA/AMBNT/SPRING/SOLIDS/MINE RMI-Indexes: RMI-Miles: HUC: 15060202 Major Basin: COLORADO RIVER Minor Basin: GILA RIVER RF1 Index: 15060202 RF3 Index: 15060202002505.59 Description: THE STATION IS LOCATED ON THE CLARKDALE AZ-YAVAPAI COUNTY 7.5 MINUTE VERDE RIVER ALONG AN AREA OF SEEPAGE. THE SITE IS LOCATED WITHIN THE SCREENING INVESTIGATION REPORT FOR THE PHELPS DODGE VERDE MINE AREA WAS CONDUCTED TO DETERMINE IF METALS ARE BEING RELEASED INTO THE RIVER AND "CONTAINS APPROXIMATELY 4 MILLION TONS OF MINING WASTES." ESTIMATED FROM ANALYTICAL MEASUREMENTS. FOR MORE INFORMATION CONTACT (520-634-5564). DATA WERE PROCESSED AND UPLOADED TO STORET BY 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (970-225-3516).	LAT/LON: 34.765392/-112.030366 Depth of Water: 0 Elevation: 0 RF1 Mile Point: 0.000 RF3 Mile Point: 6.29	Agency: 11NPSWRD FIPS State/County: 04025 ARIZONA/YAVAPAI STORET Station ID(s): TUZI_EPA_EE11 Within Park Boundary: Yes Aquifer: Water Body Id: ECO Region: Distance from RF1: 0.00 Distance from RF3: 0.01
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Date Created: 11/28/98

On/Off RF1:
On/Off RF3:

Parameter Inventory for Station: TUZI0028

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	06/30/92-06/30/92	1	35100.	35100.	35100.	35100.	0.	0.	**	**	**	**
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	06/30/92-06/30/92	1	5220.	5220.	5220.	5220.	0.	0.	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/30/92-06/30/92	1	5.3	5.3	5.3	5.3	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/30/92-06/30/92	1	85.8	85.8	85.8	85.8	0.	0.	**	**	**	**
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/30/92-06/30/92	1##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/30/92-06/30/92	1	10.8	10.8	10.8	10.8	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/30/92-06/30/92	1	50.2	50.2	50.2	50.2	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/30/92-06/30/92	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/30/92-06/30/92	1	117.	117.	117.	117.	0.	0.	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/30/92-06/30/92	1	17.3	17.3	17.3	17.3	0.	0.	**	**	**	**
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/30/92-06/30/92	1##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/30/92-06/30/92	1	41.	41.	41.	41.	0.	0.	**	**	**	**
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/30/92-06/30/92	1	7170.	7170.	7170.	7170.	0.	0.	**	**	**	**
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/30/92-06/30/92	1##	0.085	0.085	0.085	0.085	0.	0.	**	**	**	**
01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	06/30/92-06/30/92	1##	0.085	0.085	0.085	0.085	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/30/92-06/30/92	1	7310.	7310.	7310.	7310.	0.	0.	**	**	**	**
04133	MERCURY, BED MAT,DRY WT,SEDIMENT.	06/30/92-06/30/92	1##	0.085	0.085	0.085	0.085	0.	0.	**	**	**	**
81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	06/30/92-06/30/92	1	59.1	59.1	59.1	59.1	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: TUZI0029

NPS Station ID: TUZI0029	LAT/LON: 34.765420/-112.030366	Agency: 11NPSWRD	Date Created: 11/28/98
Location: SEEP ON LEFT BANK OF VERDE RIVER		FIPS State/County: 04025 ARIZONA/YAVAPAI	
Station Type: /TYPA/AMBNT/SPRING/MINE		STORET Station ID(s): TUZI_ADEQ_VRZ-3	
RMI-Indexes:		Within Park Boundary: Yes	
RMI-Miles:			
HUC: 15060202	Depth of Water: 0	Aquifer:	
Major Basin: COLORADO RIVER	Elevation: 0	Water Body Id:	
Minor Basin: GILA RIVER		ECO Region:	
RF1 Index: 15060202	RF1 Mile Point: 0.000	Distance from RF1: 0.00	On/Off RF1:
RF3 Index: 15060202002505.59	RF3 Mile Point: 6.29	Distance from RF3: 0.01	On/Off RF3:

Description:
 THE STATION IS LOCATED ON THE CLARKDALE AZ-YAVAPAI COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS LOCATED AT A SEEP ON THE LEFT BANK OF THE VERDE RIVER AND IS REFERRED TO AS SITE VRZ-3 IN THE REPORT. THIS STATION IS LOCATED WITHIN THE TUZIGOOT NATIONAL MONUMENT BOUNDARY. THE DATA ARE FROM AN INVESTIGATION REPORT BY THE ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY IN 1989. THE INVESTIGATION WAS CONDUCTED IN DECEMBER OF 1988 DUE TO A COMPLAINT "CONCERNING DISCHARGE FROM A TAILINGS PILE LOCATED BETWEEN DEAD HORSE RANCH STATE PARK AND TUZIGOOT NATIONAL MONUMENT." FOR MORE INFORMATION CONTACT THE ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY WATER QUALITY DIVISION; 3033 NORTH CENTRAL AVENUE; PHOENIX AZ 85012 (TEL. 602-207-4416). FOR INFORMATION ON TUZIGOOT CONTACT THE CHIEF OF RESOURCES AT P.O. BOX 219; CAMP VERDE AZ 86332 (TEL. 520-634-5564). DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NPS WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: TUZI0029

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/06/88-12/06/88	1	13.5	13.5	13.5	13.5	0.	0.	**	**	**	**
00094 SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	12/06/88-12/06/88	1	23296.	23296.	23296.	23296.	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/06/88-12/06/88	1	20800.	20800.	20800.	20800.	0.	0.	**	**	**	**
00403 PH, LAB, STANDARD UNITS SU	12/06/88-12/06/88	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	12/06/88-12/06/88	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/06/88-12/06/88	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
00406 PH, FIELD, STANDARD UNITS SU	12/06/88-12/06/88	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00406 CONVERTED PH, FIELD, STANDARD UNITS	12/06/88-12/06/88	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00406 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/06/88-12/06/88	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	12/06/88-12/06/88	1	1030.	1030.	1030.	1030.	0.	0.	**	**	**	**
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)	12/06/88-12/06/88	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
00440 BICARBONATE ION (MG/L AS HCO3)	12/06/88-12/06/88	1	1260.	1260.	1260.	1260.	0.	0.	**	**	**	**
00445 CARBONATE ION (MG/L AS CO3)	12/06/88-12/06/88	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/06/88-12/06/88	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/06/88-12/06/88	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	12/06/88-12/06/88	1	1.9	1.9	1.9	1.9	0.	0.	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	12/06/88-12/06/88	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	12/06/88-12/06/88	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	12/06/88-12/06/88	1	27800.	27800.	27800.	27800.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0029

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00916	CALCIUM, TOTAL (MG/L AS CA)	12/06/88-12/06/88	1	336.	336.	336.	336.	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	12/06/88-12/06/88	1	6470.	6470.	6470.	6470.	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	12/06/88-12/06/88	1	204.	204.	204.	204.	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	12/06/88-12/06/88	1	19.3	19.3	19.3	19.3	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	12/06/88-12/06/88	1	94.	94.	94.	94.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	12/06/88-12/06/88	1	25100.	25100.	25100.	25100.	0.	0.	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	12/06/88-12/06/88	1	0.48	0.48	0.48	0.48	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	12/06/88-12/06/88	1###	5.	5.	5.	5.	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	12/06/88-12/06/88	1###	50.	50.	50.	50.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	12/06/88-12/06/88	1###	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
01022	BORON, TOTAL (UG/L AS B)	12/06/88-12/06/88	1	680.	680.	680.	680.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	12/06/88-12/06/88	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	12/06/88-12/06/88	1###	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	12/06/88-12/06/88	1	94.	94.	94.	94.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	12/06/88-12/06/88	1	390.	390.	390.	390.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	12/06/88-12/06/88	1###	5.	5.	5.	5.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	12/06/88-12/06/88	1	420.	420.	420.	420.	0.	0.	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	12/06/88-12/06/88	1###	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	12/06/88-12/06/88	1###	25.	25.	25.	25.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	12/06/88-12/06/88	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	12/06/88-12/06/88	1	450.	450.	450.	450.	0.	0.	**	**	**	**
01097	ANTIMONY, TOTAL (UG/L AS SB)	12/06/88-12/06/88	1###	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	12/06/88-12/06/88	1###	250.	250.	250.	250.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	12/06/88-12/06/88	1	7.	7.	7.	7.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	12/06/88-12/06/88	1	34200.	34200.	34200.	34200.	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	12/06/88-12/06/88	1###	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	12/06/88-12/06/88	1	4.2	4.2	4.2	4.2	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0029

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
			Obs			Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00403	PH, LAB	Fresh Chronic	9.	1	0	0.00	1	0	0.00								
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00								
00406	PH, FIELD	Fresh Chronic	9.	1	0	0.00	1	0	0.00								
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00								
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	1	0	0.00	1	0	0.00								
		Fresh Acute	860.	1	0	0.00	1	0	0.00								
00940	CHLORIDE, TOTAL IN WATER	Drinking Water	250.	1	0	0.00	1	0	0.00								
		Fresh Acute	860.	1	0	0.00	1	0	0.00								
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	1	1.00	1	1	1.00								
		Fresh Acute	4.	1	0	0.00	1	0	0.00								
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	1	0	0.00	1	0	0.00								
		Fresh Acute	360.	1	0	0.00	1	0	0.00								
01002	ARSENIC, TOTAL	Drinking Water	50.	1	0	0.00	1	0	0.00								
		Fresh Acute	2000.	1	0	0.00	1	0	0.00								
01007	BARIUM, TOTAL	Drinking Water	130.	1	0	0.00	1	0	0.00								
		Fresh Acute	4.	1	0	0.00	1	0	0.00								
01012	BERYLLIUM, TOTAL	Drinking Water	3.9	1	0	0.00	1	0	0.00								
		Fresh Acute	5.	1	0	0.00	1	0	0.00								
01027	CADMIUM, TOTAL	Drinking Water	100.	1	0	0.00	1	0	0.00								
		Fresh Acute	18.	1	1	1.00	1	1	1.00								
01034	CHROMIUM, TOTAL	Drinking Water	1300.	1	0	0.00	1	0	0.00								
		Fresh Acute	82.	1	0	0.00	1	0	0.00								
01042	COPPER, TOTAL	Drinking Water	15.	1	0	0.00	1	0	0.00								
		Fresh Acute	1400.	1	0	0.00	1	0	0.00								
01051	LEAD, TOTAL	Drinking Water	2.	0 &	0	0.00											
		Fresh Acute	1400.	1	0	0.00	1	0	0.00								
01059	THALLIUM, TOTAL	Drinking Water	100.	1	0	0.00	1	0	0.00								
		Fresh Acute	4.1	1	0	0.00	1	0	0.00								
01067	NICKEL, TOTAL	Drinking Water	100.	1	0	0.00	1	0	0.00								
		Fresh Acute	100.	1	0	0.00	1	0	0.00								
01077	SILVER, TOTAL	Drinking Water	100.	1	0	0.00	1	0	0.00								
		Fresh Acute	100.	1	0	0.00	1	0	0.00								

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: TUZI0029

Parameter	Std. Type	Std. Value	Total		Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
			Obs				Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
01092 ZINC, TOTAL	Fresh Acute	120.	1		1	1.00	1	1	1.00									
	Drinking Water	5000.	1		0	0.00	1	0	0.00									
01097 ANTIMONY, TOTAL	Fresh Acute	88.	1		0	0.00	1	0	0.00									
	Drinking Water	6.	1		0	0.00	1	0	0.00									
01147 SELENIUM, TOTAL	Fresh Acute	20.	1		0	0.00	1	0	0.00									
	Drinking Water	50.	1		0	0.00	1	0	0.00									
71900 MERCURY, TOTAL	Fresh Acute	2.4	1		0	0.00	1	0	0.00									
	Drinking Water	2.	1		0	0.00	1	0	0.00									
82079 TURBIDITY, LAB	Other-Hi Lim.	50.	1		0	0.00	1	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0030

NPS Station ID: TUZI0030 LAT/LON: 34.765754/-112.037810

Location: VERDE RIVER UPSTREAM FROM DIVERSION DITCH

Station Type: /TYPA/AMBNT/STREAM/SOLIDS/MINE

RMI-Indexes:

RMI-Miles:

HUC: 15060202

Major Basin: COLORADO RIVER

Minor Basin: GILA RIVER

RF1 Index: 15060202

RF3 Index: 15060202002505.59

Description:

THE STATION IS LOCATED ON THE CLARKDALE AZ-YAVAPAI COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SEDIMENT SAMPLING SITE IS AT THE VERDE RIVER UPSTREAM OF THE IRRIGATION DIVERSION DITCH. THE SITE IS LOCATED OUTSIDE OF THE TUZIGOOT NATIONAL MONUMENT BOUNDARY. THE DATA ARE FROM A SITE SCREENING INVESTIGATION REPORT FOR THE PHELPS DODGE VERDE MINE AREA BY ECOLOGY AND ENVIRONMENT, INC. UNDER CONTRACT BY THE EPA. THE STUDY WAS CONDUCTED TO DETERMINE IF METALS ARE BEING RELEASED INTO THE ENVIRONMENT FROM A 116 ACRE TAILINGS PILE WHICH IS ADJACENT TO THE VERDE RIVER AND "CONTAINS APPROXIMATELY 4 MILLION TONS OF MINING WASTES." NPS STAFF ASSIGNED "J" STORET REMARK CODES TO VALUES THAT WERE ESTIMATED FROM ANALYTICAL MEASUREMENTS. FOR MORE INFORMATION CONTACT TUZIGOOT NATIONAL MONUMENT AT P.O. BOX 219; CAMP VERDE AZ 86332 (520-634-5564). DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (970-225-3516).

Agency: 11NPSWRD

FIPS State/County: 04025 ARIZONA/YAVAPAI

STORET Station ID(s): TUZI_EPA_EE09

Within Park Boundary: No

Date Created: 11/28/98

Depth of Water: 0

Elevation: 0

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.01

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: TUZI0030

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00917 CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	06/29/92-06/29/92	1	69000.	69000.	69000.	69000.	0.	0.	**	**	**	**
00924 MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	06/29/92-06/29/92	1	11500.	11500.	11500.	11500.	0.	0.	**	**	**	**
01003 ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/29/92-06/29/92	1	5.4	5.4	5.4	5.4	0.	0.	**	**	**	**
01008 BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/29/92-06/29/92	1	94.5	94.5	94.5	94.5	0.	0.	**	**	**	**
01013 BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/29/92-06/29/92	1 ##	0.135	0.135	0.135	0.135	0.	0.	**	**	**	**
01029 CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/29/92-06/29/92	1	17.	17.	17.	17.	0.	0.	**	**	**	**
01043 COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/29/92-06/29/92	1	22.8	22.8	22.8	22.8	0.	0.	**	**	**	**
01052 LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/29/92-06/29/92	1	4.7	4.7	4.7	4.7	0.	0.	**	**	**	**
01053 MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/29/92-06/29/92	1	149.	149.	149.	149.	0.	0.	**	**	**	**
01088 VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	06/29/92-06/29/92	1	21.6	21.6	21.6	21.6	0.	0.	**	**	**	**
01098 ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	06/29/92-06/29/92	1 ##	5.15	5.15	5.15	5.15	0.	0.	**	**	**	**
01108 ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/29/92-06/29/92	1	4520.	4520.	4520.	4520.	0.	0.	**	**	**	**
01148 SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/29/92-06/29/92	1 ##	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
01153 TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	06/29/92-06/29/92	1 ##	0.07	0.07	0.07	0.07	0.	0.	**	**	**	**
01170 IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/29/92-06/29/92	1	9260.	9260.	9260.	9260.	0.	0.	**	**	**	**
04133 MERCURY, BED MAT,DRY WT,SEDIMENT,	06/29/92-06/29/92	1 ##	0.07	0.07	0.07	0.07	0.	0.	**	**	**	**
81373 SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	06/29/92-06/29/92	1	73.6	73.6	73.6	73.6	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: TUZI0031

NPS Station ID: TUZI0031 LAT/LON: 34.765837/-112.021115
 Location: TAVASCI MARSH WASH @ MOUTH NR CLARKDALE,AZ
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 15060202 Depth of Water: 0
 Major Basin: Elevation: 0
 Minor Basin:
 RF1 Index: 15060202 RF1 Mile Point: 0.000
 RF3 Index: 15060202002506.58 RF3 Mile Point: 6.69
 Description:

Agency: 112WRD
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): 344557112011600
 Within Park Boundary: Yes

Date Created: 02/23/80

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.10
 Distance from RF3: 0.04

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: TUZI0031

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/12/79-06/12/79	1	17.5	17.5	17.5	17.5	0.	0.	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS CFS	06/12/79-06/12/79	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/12/79-06/12/79	1	608.	608.	608.	608.	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)	06/12/79-06/12/79	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	06/12/79-06/12/79	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/12/79-06/12/79	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00405 CARBON DIOXIDE (MG/L AS CO2)	06/12/79-06/12/79	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	06/12/79-06/12/79	1	300.	300.	300.	300.	0.	0.	**	**	**	**
00440 BICARBONATE ION (MG/L AS HCO3)	06/12/79-06/12/79	1	360.	360.	360.	360.	0.	0.	**	**	**	**
00445 CARBONATE ION (MG/L AS CO3)	06/12/79-06/12/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00631 NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	06/12/79-06/12/79	1	4.9	4.9	4.9	4.9	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	06/12/79-06/12/79	1	280.	280.	280.	280.	0.	0.	**	**	**	**
00902 HARDNESS, NON-CARBONATE (MG/L AS CaCO3)	06/12/79-06/12/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	06/12/79-06/12/79	1	58.	58.	58.	58.	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	06/12/79-06/12/79	1	34.	34.	34.	34.	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS Na)	06/12/79-06/12/79	1	26.	26.	26.	26.	0.	0.	**	**	**	**
00931 SODIUM ADSORPTION RATIO	06/12/79-06/12/79	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00932 SODIUM, PERCENT	06/12/79-06/12/79	1	16.	16.	16.	16.	0.	0.	**	**	**	**
00933 SODIUM,PLUS POTASSIUM (MG/L)	06/12/79-06/12/79	1	30.	30.	30.	30.	0.	0.	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	06/12/79-06/12/79	1	3.5	3.5	3.5	3.5	0.	0.	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	06/12/79-06/12/79	1	19.	19.	19.	19.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	06/12/79-06/12/79	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	06/12/79-06/12/79	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SiO2)	06/12/79-06/12/79	1	18.	18.	18.	18.	0.	0.	**	**	**	**
01020 BORON, DISSOLVED (UG/L AS B)	06/12/79-06/12/79	1	160.	160.	160.	160.	0.	0.	**	**	**	**
01046 IRON, DISSOLVED (UG/L AS FE)	06/12/79-06/12/79	1	40.	40.	40.	40.	0.	0.	**	**	**	**
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	06/12/79-06/12/79	1	358.	358.	358.	358.	0.	0.	**	**	**	**
70301 SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/12/79-06/12/79	1	371.	371.	371.	371.	0.	0.	**	**	**	**
70302 SOLIDS, DISSOLVED-TONS PER DAY	06/12/79-06/12/79	1	2.43	2.43	2.43	2.43	0.	0.	**	**	**	**
70303 SOLIDS, DISSOLVED-TONS PER ACRE-FT	06/12/79-06/12/79	1	0.49	0.49	0.49	0.49	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0031

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
							Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00							1	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00							1	0	0.00			
		Drinking Water	250.	1	0	0.00							1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00							1	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00							1	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0032

NPS Station ID: TUZI0032 LAT/LON: 34.765837/-112.029448
 Location: VERDE RIVER AT TUZIGOOT BRIDGE NR CLARKDALE, ARIZ
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 15060202 Depth of Water: 0
 Major Basin: Elevation: 0
 Minor Basin:
 RF1 Index: 15060202025 RF1 Mile Point: 12.500
 RF3 Index: 15060202002507.58 RF3 Mile Point: 7.84
 Description:

Agency: 112WRD
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): 344557112014600
 Within Park Boundary: Yes

Date Created: 08/17/77

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.01

On/Off RF1: ON
 On/Off RF3:

Parameter Inventory for Station: TUZI0032

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/21/77-06/21/77	1	24.	24.	24.	24.	0.	0.	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS CFS	06/21/77-06/21/77	1	46.	46.	46.	46.	0.	0.	**	**	**	**
00070 TURBIDITY, (JACKSON CANDLE UNITS)	06/21/77-06/21/77	1	25.	25.	25.	25.	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/21/77-06/21/77	1	520.	520.	520.	520.	0.	0.	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	06/21/77-06/21/77	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)	06/21/77-06/21/77	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	06/21/77-06/21/77	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/21/77-06/21/77	1	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
00405 CARBON DIOXIDE (MG/L AS CO2)	06/21/77-06/21/77	1	1.8	1.8	1.8	1.8	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	06/21/77-06/21/77	1	240.	240.	240.	240.	0.	0.	**	**	**	**
00440 BICARBONATE ION (MG/L AS HCO3)	06/21/77-06/21/77	1	290.	290.	290.	290.	0.	0.	**	**	**	**
00445 CARBONATE ION (MG/L AS CO3)	06/21/77-06/21/77	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00600 NITROGEN, TOTAL (MG/L AS N)	06/21/77-06/21/77	1	0.17	0.17	0.17	0.17	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/21/77-06/21/77	1	0.16	0.16	0.16	0.16	0.	0.	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/21/77-06/21/77	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00631 NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	06/21/77-06/21/77	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00660 PHOSPHATE, ORTHO (MG/L AS PO4)	06/21/77-06/21/77	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	06/21/77-06/21/77	1	0.11	0.11	0.11	0.11	0.	0.	**	**	**	**
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/21/77-06/21/77	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00680 CARBON, TOTAL ORGANIC (MG/L AS C)	06/21/77-06/21/77	1	2.1	2.1	2.1	2.1	0.	0.	**	**	**	**
00720 CYANIDE, TOTAL (MG/L AS CN) MG/L	06/21/77-06/21/77	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	06/21/77-06/21/77	1	230.	230.	230.	230.	0.	0.	**	**	**	**
00902 HARDNESS, NON-CARBONATE (MG/L AS CaCO3)	06/21/77-06/21/77	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	06/21/77-06/21/77	1	48.	48.	48.	48.	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	06/21/77-06/21/77	1	26.	26.	26.	26.	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS Na)	06/21/77-06/21/77	1	26.	26.	26.	26.	0.	0.	**	**	**	**
00931 SODIUM ADSORPTION RATIO	06/21/77-06/21/77	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00932 SODIUM, PERCENT	06/21/77-06/21/77	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	06/21/77-06/21/77	1	2.3	2.3	2.3	2.3	0.	0.	**	**	**	**
00940 CHLORIDE, TOTAL IN WATER MG/L	06/21/77-06/21/77	1	21.	21.	21.	21.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	06/21/77-06/21/77	1	23.	23.	23.	23.	0.	0.	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	06/21/77-06/21/77	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SiO2)	06/21/77-06/21/77	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01002 ARSENIC, TOTAL (UG/L AS AS)	06/21/77-06/21/77	1	18.	18.	18.	18.	0.	0.	**	**	**	**
01007 BARIUM, TOTAL (UG/L AS Ba)	06/21/77-06/21/77	1	600.	600.	600.	600.	0.	0.	**	**	**	**
01020 BORON, DISSOLVED (UG/L AS B)	06/21/77-06/21/77	1	160.	160.	160.	160.	0.	0.	**	**	**	**
01022 BORON, TOTAL (UG/L AS B)	06/21/77-06/21/77	1	200.	200.	200.	200.	0.	0.	**	**	**	**
01027 CADMIUM, TOTAL (UG/L AS Cd)	06/21/77-06/21/77	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01034	CHROMIUM, TOTAL (UG/L AS CR)	06/21/77-06/21/77	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	06/21/77-06/21/77	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	06/21/77-06/21/77	1	640.	640.	640.	640.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	06/21/77-06/21/77	1	150.	150.	150.	150.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	06/21/77-06/21/77	1 ##	100.	100.	100.	100.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	06/21/77-06/21/77	1	50.	50.	50.	50.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	06/21/77-06/21/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	06/21/77-06/21/77	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	06/21/77-06/21/77	1	50.	50.	50.	50.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	06/21/77-06/21/77	1	2.	2.	2.	2.	0.	0.	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	06/21/77-06/21/77	1	78.	78.	78.	78.	0.	0.	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	06/21/77-06/21/77	1	1.892	1.892	1.892	1.892	0.	0.	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =		78.									
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/21/77-06/21/77	1	150.	150.	150.	150.	0.	0.	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/21/77-06/21/77	1	2.176	2.176	2.176	2.176	0.	0.	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =		150.									
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	06/21/77-06/21/77	1	3.	3.	3.	3.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	06/21/77-06/21/77	1	287.	287.	287.	287.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/21/77-06/21/77	1	310.	310.	310.	310.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	06/21/77-06/21/77	1	35.6	35.6	35.6	35.6	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	06/21/77-06/21/77	1	0.39	0.39	0.39	0.39	0.	0.	**	**	**	**
71887	NITROGEN, TOTAL, AS NO3 - MG/L	06/21/77-06/21/77	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	06/21/77-06/21/77	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0032

Parameter	Std. Type	Std. Value	Total		Exceed		-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
			Obs	Standard	Prop. Exceeding		Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	1	0	0.00							1	0	0.00			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00							1	0	0.00			
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	1	0	0.00							1	0	0.00			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00							1	0	0.00			
00720	CYANIDE, TOTAL	Fresh Acute	0.022	1	0	0.00							1	0	0.00			
		Drinking Water	0.2	1	0	0.00							1	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00							1	0	0.00			
		Drinking Water	250.	1	0	0.00							1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00							1	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00							1	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
01007	BARIUM, TOTAL	Drinking Water	2000.	1	0	0.00							1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	0 &	0	0.00												
		Drinking Water	5.	0 &	0	0.00												
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00							1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	0 &	0	0.00												
		Drinking Water	15.	0 &	0	0.00												
01077	SILVER, TOTAL	Fresh Acute	4.1	0 &	0	0.00												
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00							1	0	0.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
01147	SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	1	0	0.00							1	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0033

NPS Station ID: TUZI0033 LAT/LON: 34.765948/-112.026810

Location: N ARM VERDE RIVER 200 M BELOW LEFT BANK SEEPS

Station Type: /TYPA/AMBNT/STREAM/MINE

RMI-Indexes:

RMI-Miles:

HUC: 15060202

Major Basin: COLORADO RIVER

Minor Basin: GILA RIVER

RF1 Index: 15060202

RF3 Index: 15060202002505.59

Description:

THE STATION IS LOCATED ON THE CLARKDALE AZ-YAVAPAI COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS LOCATED AT THE NORTH ARM OF THE VERDE RIVER 200 METERS BELOW THE LEFT BANK SEEPS AND IS REFERRED TO AS SITE VRZ-2 IN THE REPORT. THIS STATION IS LOCATED WITHIN THE TUZIGOOT NATIONAL MONUMENT BOUNDARY. THE DATA ARE FROM AN INVESTIGATION REPORT BY THE ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY IN 1989. THE INVESTIGATION WAS CONDUCTED IN DECEMBER OF 1988 DUE TO A COMPLAINT "CONCERNING DISCHARGE FROM A TAILINGS PILE LOCATED BETWEEN DEAD HORSE RANCH STATE PARK AND TUZIGOOT NATIONAL MONUMENT." FOR MORE INFORMATION CONTACT THE ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY WATER QUALITY DIVISION; 3033 N. CENTRAL AVENUE; PHOENIX AZ 85012 (TEL. 602-207-4416). FOR INFORMATION ON TUZIGOOT CONTACT THE CHIEF OF RESOURCES AT P.O. BOX 219; CAMP VERDE AZ 86332 (TEL. 520-634-5564). DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NPS WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE STE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Agency: 11NPSWRD

FIPS State/County: 04025 ARIZONA/YAVAPAI

STORET Station ID(s): TUZI_ADEQ_VRZ-2

Within Park Boundary: Yes

Date Created: 11/28/98

Depth of Water: 0

Elevation: 0

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.01

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: TUZI0033

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/06/88-12/06/88	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS CFS	12/06/88-12/06/88	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00094 SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	12/06/88-12/06/88	1	808.	808.	808.	808.	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/06/88-12/06/88	1	800.	800.	800.	800.	0.	0.	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	12/06/88-12/06/88	1	9.9	9.9	9.9	9.9	0.	0.	**	**	**	**
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION %	12/06/88-12/06/88	1	101.7	101.7	101.7	101.7	0.	0.	**	**	**	**
00403 PH, LAB, STANDARD UNITS SU	12/06/88-12/06/88	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	12/06/88-12/06/88	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/06/88-12/06/88	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
00406 PH, FIELD, STANDARD UNITS SU	12/06/88-12/06/88	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00406 CONVERTED PH, FIELD, STANDARD UNITS	12/06/88-12/06/88	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00406 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/06/88-12/06/88	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	12/06/88-12/06/88	1	258.	258.	258.	258.	0.	0.	**	**	**	**
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)	12/06/88-12/06/88	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
00440 BICARBONATE ION (MG/L AS HCO3)	12/06/88-12/06/88	1	315.	315.	315.	315.	0.	0.	**	**	**	**
00445 CARBONATE ION (MG/L AS CO3)	12/06/88-12/06/88	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/06/88-12/06/88	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/06/88-12/06/88	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	12/06/88-12/06/88	1	0.07	0.07	0.07	0.07	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0033

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th	
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	12/06/88-12/06/88	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	12/06/88-12/06/88	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CaCO3)	12/06/88-12/06/88	1	420.	420.	420.	420.	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS Ca)	12/06/88-12/06/88	1	61.2	61.2	61.2	61.2	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS Mg)	12/06/88-12/06/88	1	58.7	58.7	58.7	58.7	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS Na)	12/06/88-12/06/88	1	27.4	27.4	27.4	27.4	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	12/06/88-12/06/88	1	2.7	2.7	2.7	2.7	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	12/06/88-12/06/88	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	12/06/88-12/06/88	1	212.	212.	212.	212.	0.	0.	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	12/06/88-12/06/88	1	0.28	0.28	0.28	0.28	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	12/06/88-12/06/88	1	13.	13.	13.	13.	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS Ba)	12/06/88-12/06/88	1	150.	150.	150.	150.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	12/06/88-12/06/88	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
01022	BORON, TOTAL (UG/L AS B)	12/06/88-12/06/88	1	280.	280.	280.	280.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS Cd)	12/06/88-12/06/88	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS Cr)	12/06/88-12/06/88	1	11.	11.	11.	11.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS Cu)	12/06/88-12/06/88	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS Fe)	12/06/88-12/06/88	1	190.	190.	190.	190.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS Pb)	12/06/88-12/06/88	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS Mn)	12/06/88-12/06/88	1	70.	70.	70.	70.	0.	0.	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS Tl)	12/06/88-12/06/88	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS Ni)	12/06/88-12/06/88	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS Ag)	12/06/88-12/06/88	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS Zn)	12/06/88-12/06/88	1	50.	50.	50.	50.	0.	0.	**	**	**	**
01097	ANTIMONY, TOTAL (UG/L AS Sb)	12/06/88-12/06/88	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS Al)	12/06/88-12/06/88	1 ##	250.	250.	250.	250.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS Se)	12/06/88-12/06/88	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	12/06/88-12/06/88	1	537.	537.	537.	537.	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS Hg)	12/06/88-12/06/88	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	12/06/88-12/06/88	1	4.1	4.1	4.1	4.1	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0033

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00								
00403	PH, LAB	Fresh Chronic	9.	1	0	0.00	1	0	0.00								
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00								
00406	PH, FIELD	Fresh Chronic	9.	1	0	0.00	1	0	0.00								
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00								
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	1	0	0.00	1	0	0.00								
00940	CHLORIDE, TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00								
		Drinking Water	250.	1	0	0.00	1	0	0.00								
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00								
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	1	0	0.00	1	0	0.00								
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00	1	0	0.00								
		Drinking Water	50.	1	0	0.00	1	0	0.00								
01007	BARIUM, TOTAL	Drinking Water	2000.	1	0	0.00	1	0	0.00								
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00	1	0	0.00								
		Drinking Water	4.	1	0	0.00	1	0	0.00								
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00	1	0	0.00								
		Drinking Water	5.	1	0	0.00	1	0	0.00								
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00	1	0	0.00								
01042	COPPER, TOTAL	Fresh Acute	18.	1	0	0.00	1	0	0.00								
		Drinking Water	1300.	1	0	0.00	1	0	0.00								
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00	1	0	0.00								
		Drinking Water	15.	1	0	0.00	1	0	0.00								
01059	THALLIUM, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00								
		Drinking Water	2.	0 &	0	0.00											

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: TUZI0033

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
01067 NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
	Drinking Water	100.	1	0	0.00	1	0	0.00									
01077 SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
	Drinking Water	100.	1	0	0.00	1	0	0.00									
01092 ZINC, TOTAL	Fresh Acute	120.	1	0	0.00	1	0	0.00									
	Drinking Water	5000.	1	0	0.00	1	0	0.00									
01097 ANTIMONY, TOTAL	Fresh Acute	88.	1	0	0.00	1	0	0.00									
	Drinking Water	6.	1	0	0.00	1	0	0.00									
01147 SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00	1	0	0.00									
	Drinking Water	50.	1	0	0.00	1	0	0.00									
71900 MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
	Drinking Water	2.	1	0	0.00	1	0	0.00									
82079 TURBIDITY, LAB	Other-Hi Lim.	50.	1	0	0.00	1	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0034

NPS Station ID: TUZI0034 LAT/LON: 34.766087/-112.020976

Location: DRAINAGE CHANNEL LEADING OUT OF TAVASCI MARSH

Station Type: /CANAL/TYPA/AMBNT/MINE

RMI-Indexes:

RMI-Miles:

HUC: 15060202

Major Basin: COLORADO RIVER

Minor Basin: GILA RIVER

RF1 Index: 15060202

RF3 Index: 15060202002505.59

Description:

THE STATION IS LOCATED ON THE CLARKDALE AZ-YAVAPAI COUNTY 7.5 MINUTE SERIES (TOPO.) QUAD. SAMPLES INCLUDE SURFACE WATER AND SEDIMENT FROM THE DRAINAGE CHANNEL FLOWING OUT OF TAVASCI MARSH AND UPSTREAM OF OUT- FALL INTO VERDE RIVER. THIS SITE IS WITHIN THE TUZIGOOT NATIONAL MONUMENT (TUZI) BOUNDARY. THE DATA ARE FROM AN EXPANDED SITE INSPECTION REPORT FOR THE PHELPS DODGE VERDE MINE AREA BY ECOLOGY AND ENVIRONMENT; INC. UNDER CONTRACT BY THE EPA. THE STUDY WAS CONDUCTED TO DETERMINE IF METALS ARE BEING RELEASED INTO THE ENVIRONMENT FROM A 116 ACRE TAILINGS PILE WHICH IS ADJACENT TO THE VERDE RIVER AND "CONTAINS APPROXIMATELY 4 MILLION TONS OF MINING WASTES." NPS STAFF ASSIGNED "J" STORET REMARK CODES TO VALUES THAT WERE ESTIMATED FROM ANALYTICAL MEASUREMENTS. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT TUZI; PO BOX 219; CAMP VERDE AZ 86332 (520-634-5564). DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NPS WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (970-225-3516).

Agency: 11NPSWRD

FIPS State/County: 04025 ARIZONA/YAVAPAI

STORET Station ID(s): TUZI_EPA_03

Within Park Boundary: Yes

Date Created: 09/26/98

Depth of Water: 0

Elevation: 0

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.01

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: TUZI0034

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00917 CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/04/93-08/04/93	1	75700.	75700.	75700.	75700.	0.	0.	**	**	**	**
00924 MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/04/93-08/04/93	1	13700.	13700.	13700.	13700.	0.	0.	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)	08/04/93-08/04/93	1	46.2	46.2	46.2	46.2	0.	0.	**	**	**	**
00929 SODIUM, TOTAL (MG/L AS NA)	08/04/93-08/04/93	1	42.4	42.4	42.4	42.4	0.	0.	**	**	**	**
00938 POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/04/93-08/04/93	1	2540.	2540.	2540.	2540.	0.	0.	**	**	**	**
01002 ARSENIC, TOTAL (UG/L AS AS)	08/04/93-08/04/93	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01003 ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/04/93-08/04/93	1	12.3	12.3	12.3	12.3	0.	0.	**	**	**	**
01008 BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/04/93-08/04/93	1	233.	233.	233.	233.	0.	0.	**	**	**	**
01012 BERYLLIUM, TOTAL (UG/L AS BE)	08/04/93-08/04/93	1 ##	0.15	0.15	0.15	0.15	0.	0.	**	**	**	**
01027 CADMIUM, TOTAL (UG/L AS CD)	08/04/93-08/04/93	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01028 CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**
01029 CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	1	29.5	29.5	29.5	29.5	0.	0.	**	**	**	**
01034 CHROMIUM, TOTAL (UG/L AS CR)	08/04/93-08/04/93	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01042 COPPER, TOTAL (UG/L AS CU)	08/04/93-08/04/93	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01043 COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/04/93-08/04/93	1	60.1	60.1	60.1	60.1	0.	0.	**	**	**	**
01052 LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/04/93-08/04/93	1	27.3	27.3	27.3	27.3	0.	0.	**	**	**	**
01053 MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/04/93-08/04/93	1	403.	403.	403.	403.	0.	0.	**	**	**	**
01055 MANGANESE, TOTAL (UG/L AS MN)	08/04/93-08/04/93	1	253.	253.	253.	253.	0.	0.	**	**	**	**
01059 THALLIUM, TOTAL (UG/L AS TL)	08/04/93-08/04/93	1 ##	0.45	0.45	0.45	0.45	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0034

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01067 NICKEL, TOTAL (UG/L AS NI)	08/04/93-08/04/93	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	08/04/93-08/04/93	1	17.9	17.9	17.9	17.9	0.	0.	**	**	**	**
01077 SILVER, TOTAL (UG/L AS AG)	08/04/93-08/04/93	1 ##	1.45	1.45	1.45	1.45	0.	0.	**	**	**	**
01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/04/93-08/04/93	1 ##	0.38	0.38	0.38	0.38	0.	0.	**	**	**	**
01088 VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/04/93-08/04/93	1	36.3	36.3	36.3	36.3	0.	0.	**	**	**	**
01093 ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/04/93-08/04/93	1	80.9	80.9	80.9	80.9	0.	0.	**	**	**	**
01098 ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	08/04/93-08/04/93	1 ##	3.15	3.15	3.15	3.15	0.	0.	**	**	**	**
01108 ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/04/93-08/04/93	1	14600.	14600.	14600.	14600.	0.	0.	**	**	**	**
01170 IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/04/93-08/04/93	1	15300.	15300.	15300.	15300.	0.	0.	**	**	**	**
04133 MERCURY, BED MAT, DRY WT, SEDIMENT,	08/04/93-08/04/93	1 ##	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)	08/04/93-08/04/93	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
81373 SOLIDS IN SEDIMENT SAMPLE PERCENT DRY WEIGHT (%)	08/04/93-08/04/93	2	60.85	60.85	62.	59.7	2.645	1.626	**	**	**	**
81951 TOTAL ORGANIC CARBON(TOC) SEDIMENT DRY WEIGHT MG/KG	08/04/93-08/04/93	1	17600.	17600.	17600.	17600.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0034

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
01002 ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00										1	0	0.00
	Drinking Water	50.	1	0	0.00										1	0	0.00
01012 BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00										1	0	0.00
	Drinking Water	4.	1	0	0.00										1	0	0.00
01027 CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00										1	0	0.00
	Drinking Water	5.	1	0	0.00										1	0	0.00
01034 CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00										1	0	0.00
01042 COPPER, TOTAL	Fresh Acute	18.	1	0	0.00										1	0	0.00
	Drinking Water	1300.	1	0	0.00										1	0	0.00
01059 THALLIUM, TOTAL	Fresh Acute	1400.	1	0	0.00										1	0	0.00
	Drinking Water	2.	1	0	0.00										1	0	0.00
01067 NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00										1	0	0.00
	Drinking Water	100.	1	0	0.00										1	0	0.00
01077 SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00										1	0	0.00
	Drinking Water	100.	1	0	0.00										1	0	0.00
71900 MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00										1	0	0.00
	Drinking Water	2.	1	0	0.00										1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0035

NPS Station ID: TUZI0035 LAT/LON: 34.766337/-112.080171

Location: SETTLING PONDS DOWNSTREAM FROM JOSEPHINE TUNNEL

Station Type: /RESERV/TYPA/AMBNT/SOLIDS/MINE

RMI-Indexes:

RMI-Miles:

HUC: 15060202

Major Basin: COLORADO RIVER

Minor Basin: GILA RIVER

RF1 Index: 15060202

RF3 Index: 15060202002505.59

Description:

THE STATION IS LOCATED ON THE CLARKDALE AZ-YAVAPAI COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SEDIMENT SAMPLING SITE IS AT THE SETTLING PONDS DOWNSTREAM FROM JOSEPHINE TUNNEL. THE SITE IS LOCATED OUTSIDE OF THE TUZIGOOT NATIONAL MONUMENT (TUZI) BOUNDARY. THE DATA ARE FROM A SITE SCREENING INVESTIGATION REPORT FOR THE PHELPS DODGE VERDE MINE AREA BY ECOLOGY AND ENVIRONMENT, INC. UNDER CONTRACT BY THE EPA. THE STUDY WAS CONDUCTED TO DETERMINE IF METALS ARE BEING RELEASED INTO THE ENVIRONMENT FROM A 116 ACRE TAILINGS PILE WHICH IS ADJACENT TO THE VERDE RIVER AND "CONTAINS APPROXIMATELY 4 MILLION TONS OF MINING WASTES." NPS STAFF ASSIGNED "J" STORET REMARK CODES TO VALUES THAT WERE ESTIMATED FROM ANALYTICAL MEASUREMENTS. FOR MORE INFORMATION CONTACT TUZIGOOT NATIONAL MONUMENT AT P.O. BOX 219; CAMP VERDE AZ 86332 (520-634-5564). DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (970-225-3516).

Agency: 11NPSWRD

FIPS State/County: 04025 ARIZONA/YAVAPAI

STORET Station ID(s): TUZI_EPA_EE16

Within Park Boundary: No

Date Created: 11/28/98

Depth of Water: 0

Elevation: 0

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.01

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: TUZI0035

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	07/01/92-07/01/92	1	113000.	113000.	113000.	113000.	0.	0.	**	**	**	**
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	07/01/92-07/01/92	1	20100.	20100.	20100.	20100.	0.	0.	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	07/01/92-07/01/92	1	54.5	54.5	54.5	54.5	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	07/01/92-07/01/92	1	113.	113.	113.	113.	0.	0.	**	**	**	**
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	07/01/92-07/01/92	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	07/01/92-07/01/92	1	67.5	67.5	67.5	67.5	0.	0.	**	**	**	**
01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	07/01/92-07/01/92	1	27.3	27.3	27.3	27.3	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	07/01/92-07/01/92	1	495.	495.	495.	495.	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	07/01/92-07/01/92	1	9.1	9.1	9.1	9.1	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	07/01/92-07/01/92	1	805.	805.	805.	805.	0.	0.	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	07/01/92-07/01/92	1	94.9	94.9	94.9	94.9	0.	0.	**	**	**	**
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	07/01/92-07/01/92	1##	0.55	0.55	0.55	0.55	0.	0.	**	**	**	**
01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	07/01/92-07/01/92	1	82.9	82.9	82.9	82.9	0.	0.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	07/01/92-07/01/92	1	658.	658.	658.	658.	0.	0.	**	**	**	**
01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	07/01/92-07/01/92	1##	7.15	7.15	7.15	7.15	0.	0.	**	**	**	**
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	07/01/92-07/01/92	1	25100.	25100.	25100.	25100.	0.	0.	**	**	**	**
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	07/01/92-07/01/92	1##	0.95	0.95	0.95	0.95	0.	0.	**	**	**	**
01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	07/01/92-07/01/92	1##	0.095	0.095	0.095	0.095	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	07/01/92-07/01/92	1	30900.	30900.	30900.	30900.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0035

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
04133 MERCURY, BED MAT, DRY WT, SEDIMENT,	07/01/92-07/01/92	1 ##	0.095	0.095	0.095	0.095	0.	0.	**	**	**	**
81373 SOLIDS IN SEDIMENT SAMPLE PERCENT DRY WEIGHT (%)	07/01/92-07/01/92	1	53.1	53.1	53.1	53.1	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: TUZI0036

NPS Station ID: TUZI0036
 Location: VERDE RIVER BELOW TUZIGOOT BRIDGE
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 15060202
 Major Basin: COLORADO RIVER
 Minor Basin: GILA RIVER
 RF1 Index: 15060202025
 RF3 Index: 15060202002500.00
 Description:

LAT/LON: 34.766948/-112.039726

Depth of Water: 0
 Elevation: 0
 RF1 Mile Point: 13.300
 RF3 Mile Point: 0.08

Agency: 21ARIZ
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): 700000000022000/VV06
 Within Park Boundary: No

Date Created: 11/08/78

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.00

On/Off RF1: ON
 On/Off RF3:

T16N, R2E, SEC 21, YAVAPAI COUNTY. 227.9 KM (141.6 MI) UPSTREAM OF CONFLUENCE WITH SALT RIVER. 20-50M
 BELOW TUZIGOOT BRIDGE. INTENSIVE SURVEY NO. 800401 WAS CONDUCTED IN ASSOCIATION WITH NACOG, STARTING FEB, 1980.

Parameter Inventory for Station: TUZI0036

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/01/76-12/09/80	15	21.	20.333	29.	10.	36.024	6.002	10.9	15.	25.	28.4
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/12/80-12/09/80	12	28.25	26.667	38.	16.	56.061	7.487	16.75	19.125	32.5	37.4
00061 FLOW, STREAM, INSTANTANEOUS CFS	02/12/80-12/09/80	7	81.	126.143	280.	72.	6483.143	80.518	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/01/76-12/09/80	15	9.	48.68	320.	0.3	8009.263	89.494	0.6	1.6	46.	243.2
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	02/12/80-12/09/80	10	535.	531.	600.	460.	1387.778	37.253	464.	507.5	550.	595.
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/01/76-05/20/80	7	481.	465.571	629.	307.	10197.286	100.982	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	09/01/76-12/09/80	14	8.6	8.757	11.	6.8	1.695	1.302	6.95	7.825	9.925	10.75
00310 BOD, 5 DAY, 20 DEG C MG/L	09/01/76-09/10/76	3	1.	1.	1.	1.	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)	02/12/80-12/09/80	12	8.1	8.158	8.5	7.8	0.037	0.193	7.86	8.025	8.3	8.47
00400 CONVERTED PH (STANDARD UNITS)	02/12/80-12/09/80	12	8.1	8.12	8.5	7.8	0.039	0.197	7.86	8.025	8.3	8.47
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/12/80-12/09/80	12	0.008	0.008	0.016	0.003	0.	0.003	0.003	0.005	0.009	0.014
00403 PH, LAB, STANDARD UNITS SU	09/01/76-05/20/80	7	8.	7.843	8.3	6.8	0.27	0.519	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	09/01/76-05/20/80	7	8.	7.491	8.3	6.8	0.414	0.644	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/01/76-05/20/80	7	0.01	0.032	0.158	0.005	0.003	0.056	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	09/01/76-05/20/80	7	202.	201.714	256.	98.	3041.905	55.153	**	**	**	**
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)	09/01/76-05/20/80	7	0.	0.	0.	0.	0.	0.	**	**	**	**
00500 RESIDUE, TOTAL (MG/L)	02/12/80-05/20/80	4	298.5	291.	369.	198.	5052.667	71.082	**	**	**	**
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	09/01/76-09/10/76	3	274.	260.	285.	221.	1171.	34.22	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/01/76-03/18/80	4	72.	129.	360.	12.	25038.667	158.236	**	**	**	**
00535 RESIDUE, VOLATILE NONFILTRABLE (MG/L)	09/01/76-09/10/76	3	24.	18.667	24.	8.	85.333	9.238	**	**	**	**
00600 NITROGEN, TOTAL (MG/L AS N)	06/17/80-12/09/80	8	0.2	0.269	0.8	0.05	0.054	0.231	**	**	**	**
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	09/01/76-05/20/80	7 ##	0.005	0.006	0.01	0.005	0.	0.002	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/01/76-12/09/80	15	0.1	0.27	1.1	0.05	0.101	0.318	0.05	0.05	0.5	0.92
00630 NITRITE PLUS NITRATE, TOTAL I DET. (MG/L AS N)	06/17/80-12/09/80	8	0.08	2.828	22.	0.02	60.016	7.747	**	**	**	**
00650 PHOSPHATE, TOTAL (MG/L AS PO4)	09/01/76-12/09/80	11	0.07	0.109	0.29	0.005	0.008	0.087	0.01	0.04	0.17	0.27
00665 PHOSPHORUS, TOTAL (MG/L AS P)	02/12/80-05/20/80	4	0.05	0.048	0.06	0.03	0.	0.013	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	09/01/76-05/20/80	7	212.	212.143	297.	143.	2283.143	47.782	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS Ca)	09/01/76-05/20/80	7	56.	50.	61.	35.	132.667	11.518	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)	09/01/76-05/20/80	7	18.	20.714	35.	13.	58.905	7.675	**	**	**	**
00929 SODIUM, TOTAL (MG/L AS Na)	09/01/76-05/20/80	7	20.	19.429	26.	11.	28.286	5.318	**	**	**	**
00937 POTASSIUM, TOTAL MG/L AS K)	04/16/80-05/20/80	2	3.5	3.5	5.	2.	4.5	2.121	**	**	**	**
00940 CHLORIDE, TOTAL IN WATER MG/L	09/01/76-12/09/80	10	15.	12.1	18.	1.	33.211	5.763	1.5	6.75	16.25	17.9
00945 SULFATE, TOTAL (MG/L AS SO4)	09/01/76-12/09/80	15	36.	37.6	68.	12.	280.257	16.741	13.8	28.	50.	65.6

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00951	FLUORIDE, TOTAL (MG/L AS F)	09/01/76-03/18/80	4	0.185	0.193	0.24	0.16	0.002	0.039	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	04/16/80-04/16/80	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	09/01/76-05/20/80	7	14.	13.143	20.	1.	57.476	7.581	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	04/16/80-04/16/80	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	09/01/76-08/26/80	8 ##	2.5	3.438	10.	2.5	7.031	2.652	**	**	**	**
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	09/01/76-09/10/76	3 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	02/12/80-08/26/80	5 ##	5.	9.	25.	5.	80.	8.944	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	04/16/80-04/16/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	09/01/76-08/26/80	8 ##	25.	40.	90.	25.	778.571	27.903	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	09/01/76-05/20/80	7	710.	604.286	1170.	0.	170361.905	412.749	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	04/16/80-04/16/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01047	IRON, FERROUS (UG/L AS FE)	05/20/80-05/20/80	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	04/16/80-04/16/80	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	09/01/76-05/20/80	7 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	09/01/76-05/20/80	7	90.	100.714	240.	0.	7503.571	86.623	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/16/80-04/16/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01072	PHOSPHORUS, DISS, SPECTROGRAPH METH (UG/L AS P)	08/26/80-08/26/80	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	09/01/76-03/18/80	4 ##	5.	6.25	10.	5.	6.25	2.5	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	04/16/80-04/16/80	1	330.	330.	330.	330.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	09/01/76-08/26/80	8	235.	283.75	650.	0.	79798.214	282.486	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	04/16/80-04/16/80	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	09/01/76-08/26/80	8 ##	2.5	2.813	5.	2.5	0.781	0.884	**	**	**	**
31613	FECAL COLIFORM, MEMBR FILTER, M-FC AGAR, 44.5C, 24HR	05/20/80-12/09/80	10	4.5	41.35	353.	0.5	12045.447	109.752	0.65	2.	14.	320.3
31613	LOG FECAL COLIFORM, MEMBR FILTER, M-FC AGAR, 44.5C, 24	05/20/80-12/09/80	10	0.651	0.795	2.548	-0.301	0.594	0.771	-0.241	0.301	1.104	2.434
31613	GM FECAL COLIFORM, MEMBR FILTER, M-FC AGAR, 44.5C, 24HR	GEOMETRIC MEAN =		6.23									
31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	04/16/80-04/16/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	04/16/80-04/16/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN =		1.									
31673	FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	04/16/80-12/09/80	11	24.	51.636	197.	3.	4217.255	64.94	3.6	7.	109.	184.2
31673	LOG FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	04/16/80-12/09/80	11	1.38	1.367	2.294	0.477	0.362	0.602	0.537	0.845	2.037	2.26
31673	GM FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	GEOMETRIC MEAN =		23.296									
71850	NITRATE NITROGEN, TOTAL (MG/L AS NO3)	09/01/76-05/20/80	7	2.	1.536	2.	0.25	0.634	0.796	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	04/16/80-04/16/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	09/01/76-08/26/80	8 ##	0.25	0.231	0.25	0.1	0.003	0.053	**	**	**	**
82079	TURBIDITY, LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	02/12/80-05/20/80	3	32.	27.	40.	9.	259.	16.093	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0036

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----			
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	15	3	0.20	3	0	0.00	3	0	0.00	2	0	0.00	7	3	0.43
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	14	0	0.00	3	0	0.00	3	0	0.00	1	0	0.00	7	0	0.00
00400	PH	Fresh Chronic	9.	12	0	0.00	3	0	0.00	3	0	0.00	2	0	0.00	4	0	0.00
00403	PH, LAB	Other-Lo Lim.	6.5	12	0	0.00	3	0	0.00	3	0	0.00	2	0	0.00	4	0	0.00
		Fresh Chronic	9.	7	0	0.00	3	0	0.00	1	0	0.00	3	0	0.00			
		Other-Lo Lim.	6.5	7	0	0.00	3	0	0.00	1	0	0.00	3	0	0.00			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	7	0	0.00				3	0	0.00	1	0	0.00	3	0	0.00
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	8	1	0.13	3	0	0.00				1	0	0.00	4	1	0.25
00940	CHLORIDE, TOTAL IN WATER	Fresh Acute	860.	10	0	0.00	3	0	0.00	3	0	0.00	1	0	0.00	3	0	0.00
		Drinking Water	250.	10	0	0.00	3	0	0.00	3	0	0.00	1	0	0.00	3	0	0.00
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	15	0	0.00	3	0	0.00	3	0	0.00	2	0	0.00	7	0	0.00
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	4	0	0.00				1	0	0.00				3	0	0.00
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	1	0	0.00				1	0	0.00						
		Drinking Water	50.	1	0	0.00				1	0	0.00						
01002	ARSENIC, TOTAL	Fresh Acute	360.	7	0	0.00				3	0	0.00	1	0	0.00	3	0	0.00
		Drinking Water	50.	7	0	0.00				3	0	0.00	1	0	0.00	3	0	0.00
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0	0.00				1	0	0.00						
		Drinking Water	5.	1	0	0.00				1	0	0.00						

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: TUZI0036

Parameter	Std. Type	Std. Value	Total			Exceed			Prop.			-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
			Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
01027	CADMIUM, TOTAL	Fresh Acute	3.9	7 &	0			0.00							3	0	0.00	1	0	0.00	3	0	0.00
		Drinking Water	5.	7 &	0			0.00							3	0	0.00	1	0	0.00	3	0	0.00
01032	CHROMIUM, HEXAVALENT	Fresh Acute	16.	3	0			0.00													3	0	0.00
		Drinking Water	100.	3	0			0.00													3	0	0.00
01034	CHROMIUM, TOTAL	Drinking Water	100.	5	0			0.00							3	0	0.00	1	0	0.00	1	0	0.00
01040	COPPER, DISSOLVED	Fresh Acute	18.	0 &	0			0.00															
		Drinking Water	1300.	1	0			0.00							1	0	0.00						
01042	COPPER, TOTAL	Fresh Acute	18.	2 &	2			1.00							2	2	1.00						
		Drinking Water	1300.	8	0			0.00							3	0	0.00	1	0	0.00	4	0	0.00
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0			0.00							1	0	0.00						
		Drinking Water	15.	1	0			0.00							1	0	0.00						
01051	LEAD, TOTAL	Fresh Acute	82.	7	0			0.00							3	0	0.00	1	0	0.00	3	0	0.00
		Drinking Water	15.	7	0			0.00							3	0	0.00	1	0	0.00	3	0	0.00
01077	SILVER, TOTAL	Fresh Acute	4.1	1 &	1			1.00													1	1	1.00
		Drinking Water	100.	4	0			0.00							1	0	0.00				3	0	0.00
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	1			1.00							1	1	1.00						
		Drinking Water	5000.	1	0			0.00							1	0	0.00						
01092	ZINC, TOTAL	Fresh Acute	120.	8	5			0.63							3	3	1.00	1	1	1.00	4	1	0.25
		Drinking Water	5000.	8	0			0.00							3	0	0.00	1	0	0.00	4	0	0.00
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0			0.00							1	0	0.00						
		Drinking Water	50.	1	0			0.00							1	0	0.00						
01147	SELENIUM, TOTAL	Fresh Acute	20.	8	0			0.00							3	0	0.00	1	0	0.00	4	0	0.00
		Drinking Water	50.	8	0			0.00							3	0	0.00	1	0	0.00	4	0	0.00
31613	FECAL COLIFORM, MEMBRANE FILTER, AGAR	Other-Hi Lim.	200.	10	1			0.10	3	0	0.00				1	0	0.00	3	0	0.00	4	1	0.25
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	1	0			0.00							1	0	0.00						
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	7	0			0.00							3	0	0.00	1	0	0.00	3	0	0.00
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	1	0			0.00							1	0	0.00						
		Drinking Water	2.	1	0			0.00							1	0	0.00						
71900	MERCURY, TOTAL	Fresh Acute	2.4	8	0			0.00							3	0	0.00	1	0	0.00	4	0	0.00
		Drinking Water	2.	8	0			0.00							3	0	0.00	1	0	0.00	4	0	0.00
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	3	0			0.00							2	0	0.00	1	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0037

NPS Station ID: TUZI0037 LAT/LON: 34.767976/-112.077949

Location: SETTLING PONDS DOWNSTREAM FROM JOSEPHINE TUNNEL

Station Type: /RESERV/TYPA/AMBNT/SOLIDS/MINE

RMI-Indexes:

RMI-Miles:

HUC: 15060202

Major Basin: COLORADO RIVER

Minor Basin: GILA RIVER

RF1 Index: 15060202

RF3 Index: 15060202002505.59

Description:

THE STATION IS LOCATED ON THE CLARKDALE AZ-YAVAPAI COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SEDIMENT SAMPLING SITE IS AT THE SETTLING PONDS DOWNSTREAM FROM JOSEPHINE TUNNEL. THE SITE IS LOCATED OUTSIDE OF THE TUZIGOOT NATIONAL MONUMENT (TUZI) BOUNDARY. THE DATA ARE FROM A SITE SCREENING INVESTIGATION REPORT FOR THE PHELPS DODGE VERDE MINE AREA BY ECOLOGY AND ENVIRONMENT, INC. UNDER CONTRACT BY THE EPA. THE STUDY WAS CONDUCTED TO DETERMINE IF METALS ARE BEING RELEASED INTO THE ENVIRONMENT FROM A 116 ACRE TAILINGS PILE WHICH IS ADJACENT TO THE VERDE RIVER AND "CONTAINS APPROXIMATELY 4 MILLION TONS OF MINING WASTES." NPS STAFF ASSIGNED "J" STORET REMARK CODES TO VALUES THAT WERE ESTIMATED FROM ANALYTICAL MEASUREMENTS. FOR MORE INFORMATION CONTACT TUZIGOOT NATIONAL MONUMENT AT P.O. BOX 219; CAMP VERDE AZ 86332 (520-634-5564). DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (970-225-3516).

Agency: 11NPSWRD

FIPS State/County: 04025 ARIZONA/YAVAPAI

STORET Station ID(s): TUZI_EPA_EEI7

Within Park Boundary: No

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.01

Date Created: 11/28/98

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: TUZI0037

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th	
00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	07/01/92-07/01/92	1	68800.	68800.	68800.	68800.	0.	0.	**	**	**	**
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	07/01/92-07/01/92	1	13400.	13400.	13400.	13400.	0.	0.	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	07/01/92-07/01/92	1	37.9	37.9	37.9	37.9	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	07/01/92-07/01/92	1	182.	182.	182.	182.	0.	0.	**	**	**	**
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	07/01/92-07/01/92	1	11.3	11.3	11.3	11.3	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	07/01/92-07/01/92	1	29.7	29.7	29.7	29.7	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	07/01/92-07/01/92	1	1680.	1680.	1680.	1680.	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	07/01/92-07/01/92	1	59.5	59.5	59.5	59.5	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	07/01/92-07/01/92	1	272.	272.	272.	272.	0.	0.	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	07/01/92-07/01/92	1	39.	39.	39.	39.	0.	0.	**	**	**	**
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	07/01/92-07/01/92	1 ##	0.55	0.55	0.55	0.55	0.	0.	**	**	**	**
01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	07/01/92-07/01/92	1	48.8	48.8	48.8	48.8	0.	0.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	07/01/92-07/01/92	1	976.	976.	976.	976.	0.	0.	**	**	**	**
01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	07/01/92-07/01/92	1 ##	6.7	6.7	6.7	6.7	0.	0.	**	**	**	**
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	07/01/92-07/01/92	1	13400.	13400.	13400.	13400.	0.	0.	**	**	**	**
01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	07/01/92-07/01/92	1 ##	0.09	0.09	0.09	0.09	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	07/01/92-07/01/92	1	26600.	26600.	26600.	26600.	0.	0.	**	**	**	**
04133	MERCURY, BED MAT,DRY WT,SEDIMENT.	07/01/92-07/01/92	1	0.27	0.27	0.27	0.27	0.	0.	**	**	**	**
81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	07/01/92-07/01/92	1	56.6	56.6	56.6	56.6	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: TUZI0038

NPS Station ID: TUZI0038 LAT/LON: 34.768004/-112.101199

Location: SETTLING PONDS DOWNSTREAM FROM HOPEWELL TUNNEL

Station Type: /RESERV/TYPA/AMBNT/SOLIDS/MINE

RMI-Indexes:

RMI-Miles:

HUC: 15060202

Major Basin: COLORADO RIVER

Minor Basin: GILA RIVER

RF1 Index: 15060202

RF3 Index: 15060202002505.59

Description:

THE STATION IS LOCATED ON THE CLARKDALE AZ-YAVAPAI COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SEDIMENT SAMPLING SITE IS AT THE SETTLING PONDS DOWNSTREAM FROM HOPEWELL TUNNEL. THE SITE IS LOCATED OUTSIDE OF THE TUZIGOOT NATIONAL MONUMENT (TUZI) BOUNDARY. THE DATA ARE FROM A SITE SCREENING INVESTIGATION REPORT FOR THE PHELPS DODGE VERDE MINE AREA BY ECOLOGY AND ENVIRONMENT, INC. UNDER CONTRACT BY THE EPA. THE STUDY WAS CONDUCTED TO DETERMINE IF METALS ARE BEING RELEASED INTO THE ENVIRONMENT FROM A 116 ACRE TAILINGS PILE WHICH IS ADJACENT TO THE VERDE RIVER AND "CONTAINS APPROXIMATELY 4 MILLION TONS OF MINING WASTES." NPS STAFF ASSIGNED "J" STORET REMARK CODES TO VALUES THAT WERE ESTIMATED FROM ANALYTICAL MEASUREMENTS. FOR MORE INFORMATION CONTACT TUZIGOOT NATIONAL MONUMENT AT P.O. BOX 219; CAMP VERDE AZ 86332 (520-634-5564). DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (970-225-3516).

Agency: 11NPSWRD

FIPS State/County: 04025 ARIZONA/YAVAPAI

STORET Station ID(s): TUZI_EPA_EE18

Within Park Boundary: No

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.01

Date Created: 11/28/98

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: TUZI0038

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th	
00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	06/30/92-06/30/92	1	33800.	33800.	33800.	33800.	0.	0.	**	**	**	**
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	06/30/92-06/30/92	1	14800.	14800.	14800.	14800.	0.	0.	**	**	**	**
00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	06/30/92-06/30/92	1	3000.	3000.	3000.	3000.	0.	0.	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/30/92-06/30/92	1	75.2	75.2	75.2	75.2	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/30/92-06/30/92	1	238.	238.	238.	238.	0.	0.	**	**	**	**
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/30/92-06/30/92	1	26.4	26.4	26.4	26.4	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/30/92-06/30/92	1	48.8	48.8	48.8	48.8	0.	0.	**	**	**	**
01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	06/30/92-06/30/92	1	30.2	30.2	30.2	30.2	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/30/92-06/30/92	1	4390.	4390.	4390.	4390.	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/30/92-06/30/92	1	66.3	66.3	66.3	66.3	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/30/92-06/30/92	1	698.	698.	698.	698.	0.	0.	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/30/92-06/30/92	1	60.4	60.4	60.4	60.4	0.	0.	**	**	**	**
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/30/92-06/30/92	1##	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	06/30/92-06/30/92	1	61.1	61.1	61.1	61.1	0.	0.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/30/92-06/30/92	1	7940.	7940.	7940.	7940.	0.	0.	**	**	**	**
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/30/92-06/30/92	1	29700.	29700.	29700.	29700.	0.	0.	**	**	**	**
01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	06/30/92-06/30/92	1##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/30/92-06/30/92	1	109000.	109000.	109000.	109000.	0.	0.	**	**	**	**
04133	MERCURY, BED MAT,DRY WT,SEDIMENT,	06/30/92-06/30/92	1	0.21	0.21	0.21	0.21	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0038

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
81373 SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	06/30/92-06/30/92	1	48.8	48.8	48.8	48.8	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: TUZI0039

NPS Station ID: TUZI0039 Location: TAILINGS POND SOUTH OF PECKS LAKE Station Type: /RESERV/TYPA/AMBNT/SOLIDS/MINE RMI-Indexes: RMI-Miles: HUC: 15060202 Major Basin: COLORADO RIVER Minor Basin: GILA RIVER RF1 Index: 15060202 RF3 Index: 15060202002505.59 Description: THE STATION IS LOCATED ON THE CLARKDALE AZ-YAVAPAI COUNTY 7.5 MINUTE TAILINGS POND SOUTH OF PECKS LAKE. THE SITE IS LOCATED WITHIN THE SCREENING INVESTIGATION REPORT FOR THE PHELPS DODGE VERDE MINE AREA WAS CONDUCTED TO DETERMINE IF METALS ARE BEING RELEASED INTO THE RIVER AND "CONTAINS APPROXIMATELY 4 MILLION TONS OF MINING WASTES." FROM ANALYTICAL MEASUREMENTS. FOR MORE INFORMATION CONTACT TUZIGOOT DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; SUITE 250; FORT COLLINS CO 80525 (970-225-3516).	LAT/LON: 34.768031/-112.030532 Depth of Water: 0 Elevation: 0 RF1 Mile Point: 0.000 RF3 Mile Point: 6.29	Agency: 11NPSWRD FIPS State/County: 04025 ARIZONA/YAVAPAI STORET Station ID(s): TUZI_EPA_EE04 Within Park Boundary: Yes Aquifer: Water Body Id: ECO Region: Distance from RF1: 0.00 Distance from RF3: 0.01
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Date Created: 11/28/98

On/Off RF1:
On/Off RF3:

Parameter Inventory for Station: TUZI0039

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00917 CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	06/29/92-06/29/92	1	24700.	24700.	24700.	24700.	0.	0.	**	**	**	**
00924 MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	06/29/92-06/29/92	1	24200.	24200.	24200.	24200.	0.	0.	**	**	**	**
01003 ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/29/92-06/29/92	1	340.	340.	340.	340.	0.	0.	**	**	**	**
01013 BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/29/92-06/29/92	1 ##	0.125	0.125	0.125	0.125	0.	0.	**	**	**	**
01029 CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/29/92-06/29/92	1	3.9	3.9	3.9	3.9	0.	0.	**	**	**	**
01038 COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	06/29/92-06/29/92	1	14.7	14.7	14.7	14.7	0.	0.	**	**	**	**
01043 COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/29/92-06/29/92	1	1420.	1420.	1420.	1420.	0.	0.	**	**	**	**
01053 MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/29/92-06/29/92	1	271.	271.	271.	271.	0.	0.	**	**	**	**
01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/29/92-06/29/92	1 ##	2.2	2.2	2.2	2.2	0.	0.	**	**	**	**
01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/29/92-06/29/92	1	30.4	30.4	30.4	30.4	0.	0.	**	**	**	**
01088 VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	06/29/92-06/29/92	1	15.3	15.3	15.3	15.3	0.	0.	**	**	**	**
01108 ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/29/92-06/29/92	1	27700.	27700.	27700.	27700.	0.	0.	**	**	**	**
01148 SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/29/92-06/29/92	1	22.7	22.7	22.7	22.7	0.	0.	**	**	**	**
01170 IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/29/92-06/29/92	1	140000.	140000.	140000.	140000.	0.	0.	**	**	**	**
81373 SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	06/29/92-06/29/92	1	81.4	81.4	81.4	81.4	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: TUZI0040

NPS Station ID: TUZI0040
 Location: A-16-03 21CBB
 Station Type: /TYPA/AMBNT/SPRING
 RMI-Indexes:
 RMI-Miles:
 HUC: 15060202
 Major Basin:
 Minor Basin:
 RF1 Index: 15060202
 RF3 Index: 15060202039000.08
 Description:

LAT/LON: 34.768059/-112.043060

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.62

Agency: 112WRD
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): 344605112023501
 Within Park Boundary: No

Date Created: 02/28/78

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 5.80
 Distance from RF3: 0.25

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: TUZI0040

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/29/58-10/29/58	1	19.5	19.5	19.5	19.5	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/29/58-10/29/58	1	1620.	1620.	1620.	1620.	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)	10/29/58-10/29/58	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	10/29/58-10/29/58	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/29/58-10/29/58	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00405 CARBON DIOXIDE (MG/L AS CO2)	10/29/58-10/29/58	1	22.	22.	22.	22.	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	10/29/58-10/29/58	1	227.	227.	227.	227.	0.	0.	**	**	**	**
00440 BICARBONATE ION (MG/L AS HCO3)	10/29/58-10/29/58	1	277.	277.	277.	277.	0.	0.	**	**	**	**
00445 CARBONATE ION (MG/L AS CO3)	10/29/58-10/29/58	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00618 NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/29/58-10/29/58	1	3.6	3.6	3.6	3.6	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	10/29/58-10/29/58	1	930.	930.	930.	930.	0.	0.	**	**	**	**
00902 HARDNESS, NON-CARBONATE (MG/L AS CaCO3)	10/29/58-10/29/58	1	703.	703.	703.	703.	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	10/29/58-10/29/58	1	212.	212.	212.	212.	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	10/29/58-10/29/58	1	98.	98.	98.	98.	0.	0.	**	**	**	**
00931 SODIUM ADSORPTION RATIO	10/29/58-10/29/58	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00932 SODIUM, PERCENT	10/29/58-10/29/58	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00933 SODIUM,PLUS POTASSIUM (MG/L)	10/29/58-10/29/58	1	39.	39.	39.	39.	0.	0.	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	10/29/58-10/29/58	1	52.	52.	52.	52.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	10/29/58-10/29/58	1	673.	673.	673.	673.	0.	0.	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	10/29/58-10/29/58	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SiO2)	10/29/58-10/29/58	1	36.	36.	36.	36.	0.	0.	**	**	**	**
70301 SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/29/58-10/29/58	1	1260.	1260.	1260.	1260.	0.	0.	**	**	**	**
70303 SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/29/58-10/29/58	1	1.71	1.71	1.71	1.71	0.	0.	**	**	**	**
71851 NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/29/58-10/29/58	1	16.	16.	16.	16.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0040

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
00400 PH	Fresh Chronic	9.	1	0	0.00	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
	Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00
	Drinking Water	10.	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00
	Drinking Water	250.	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: TUZI0040

Parameter	Std. Type	Std. Value	Total	Exceed	Prop.	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
			Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	1	1.00	1	1	1.00									
00950 FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00	1	0	0.00									
71851 NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0041

NPS Station ID: TUZI0041

Location: SETTLING PONDS DOWNSTREAM FROM HOPEWELL TUNNEL

Station Type: /RESERV/TYPA/AMBNT/SOLIDS/MINE

RMI-Indexes:

RMI-Miles:

HUC: 15060202

Major Basin: COLORADO RIVER

Minor Basin: GILA RIVER

RF1 Index: 15060202

RF3 Index: 15060202002505.59

Description:

THE STATION IS LOCATED ON THE CLARKDALE AZ-YAVAPAI COUNTY 7.5 MINUTE SETTLING PONDS DOWNSTREAM FROM HOPEWELL TUNNEL. THE SITE IS LOCATED OUTSIDE OF THE TUZIGOOT NATIONAL MONUMENT (TUZI) BOUNDARY. THE DATA ARE FROM A SITE SCREENING INVESTIGATION REPORT FOR THE PHELPS DODGE VERDE MINE AREA BY ECOLOGY AND ENVIRONMENT; INC. UNDER CONTRACT BY THE EPA. THE STUDY WAS CONDUCTED TO DETERMINE IF METALS ARE BEING RELEASED INTO THE ENVIRONMENT FROM A 116 ACRE TAILINGS PILE WHICH IS ADJACENT TO THE VERDE RIVER AND "CONTAINS APPROXIMATELY 4 MILLION TONS OF MINING WASTES." NPS STAFF ASSIGNED "J" STORET REMARK CODES TO VALUES THAT WERE ESTIMATED FROM ANALYTICAL MEASUREMENTS. FOR MORE INFORMATION CONTACT TUZIGOOT NATIONAL MONUMENT AT P.O. BOX 219; CAMP VERDE AZ 86332 (520-634-5564). DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION;

1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (970-225-3516).

LAT/LON: 34.768226/-112.100198

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 6.29

Agency: 11NPSWRD

FIPS State/County: 04025 ARIZONA/YAVAPAI

STORET Station ID(s): TUZI_EPA_EE19

Within Park Boundary: No

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.01

Date Created: 11/28/98

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: TUZI0041

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01003 ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/30/92-06/30/92	1	24.1	24.1	24.1	24.1	0.	0.	**	**	**	**
01013 BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/30/92-06/30/92	1 ##	0.14	0.14	0.14	0.14	0.	0.	**	**	**	**
01028 CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/30/92-06/30/92	1 ##	0.425	0.425	0.425	0.425	0.	0.	**	**	**	**
01029 CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/30/92-06/30/92	1	2.9	2.9	2.9	2.9	0.	0.	**	**	**	**
01038 COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	06/30/92-06/30/92	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01043 COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/30/92-06/30/92	1	349.	349.	349.	349.	0.	0.	**	**	**	**
01053 MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/30/92-06/30/92	1	14.1	14.1	14.1	14.1	0.	0.	**	**	**	**
01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/30/92-06/30/92	1 ##	2.55	2.55	2.55	2.55	0.	0.	**	**	**	**
01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/30/92-06/30/92	1 ##	0.425	0.425	0.425	0.425	0.	0.	**	**	**	**
01093 ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/30/92-06/30/92	1	146.	146.	146.	146.	0.	0.	**	**	**	**
01098 ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	06/30/92-06/30/92	1 ##	5.35	5.35	5.35	5.35	0.	0.	**	**	**	**
01108 ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/30/92-06/30/92	1	5120.	5120.	5120.	5120.	0.	0.	**	**	**	**
01153 TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	06/30/92-06/30/92	1 ##	0.07	0.07	0.07	0.07	0.	0.	**	**	**	**
01170 IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/30/92-06/30/92	1	32400.	32400.	32400.	32400.	0.	0.	**	**	**	**
04133 MERCURY, BED MAT,DRY WT,SEDIMENT,	06/30/92-06/30/92	1 ##	0.07	0.07	0.07	0.07	0.	0.	**	**	**	**
81373 SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	06/30/92-06/30/92	1	71.	71.	71.	71.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: TUZI0042

NPS Station ID: TUZI0042
 Location: A-16-03 22BCC
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 15060202
 Major Basin:
 Minor Basin:
 RF1 Index: 15060202
 RF3 Index: 15060202002511.19
 Description:

LAT/LON: 34.770281/-112.025282

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 11.74

Agency: 112WRD
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): 344613112013101
 Within Park Boundary: Yes

Date Created: 04/14/78

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 2.10
 Distance from RF3: 0.23

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: TUZI0042

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/04/63-03/04/63	1	14.5	14.5	14.5	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/18/59-08/11/75	6	466.	465.667	470.	15.867	3.983	**	**	**	**
00400	PH (STANDARD UNITS)	08/18/59-04/06/66	5	7.7	7.76	8.1	0.068	0.261	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/18/59-04/06/66	5	7.7	7.698	8.1	0.073	0.27	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/18/59-04/06/66	5	0.02	0.02	0.04	0.008	0.012	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	08/18/59-04/06/66	5	8.6	8.58	17.	3.4	5.224	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	08/18/59-08/11/75	6	216.5	217.5	222.	213.	11.5	3.391	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/18/59-08/11/75	6	263.5	265.167	271.	260.	18.967	4.355	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	08/18/59-04/06/66	5	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CaCO3)	08/18/59-08/11/75	6	213.	196.667	217.	111.	1764.267	42.003	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CaCO3)	08/18/59-08/11/75	6	0.	0.667	4.	0.	2.667	1.633	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS Ca)	08/18/59-08/11/75	6	37.	35.833	42.	24.	38.167	6.178	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/18/59-08/11/75	6	28.5	25.833	30.	12.	48.167	6.94	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	03/04/63-08/11/75	5	19.	28.8	74.	16.	640.7	25.312	**	**	**
00931	SODIUM ADSORPTION RATIO	08/18/59-08/11/75	6	0.6	0.983	3.1	0.5	1.078	1.038	**	**	**
00932	SODIUM, PERCENT	08/18/59-04/06/66	5	16.	15.2	16.	14.	1.2	1.095	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	08/18/59-08/18/59	1	19.	19.	19.	19.	0.	0.	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	03/04/63-04/06/66	4	3.2	3.475	4.7	2.8	0.763	0.873	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/18/59-08/11/75	6	20.	20.	22.	19.	1.2	1.095	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/18/59-08/11/75	6	7.	7.333	8.	7.	0.267	0.516	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/18/59-08/11/75	6	0.35	0.367	0.5	0.3	0.007	0.082	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SiO2)	08/18/59-04/06/66	5	41.	42.6	61.	27.	206.8	14.381	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	08/11/75-08/11/75	1	30.	30.	30.	30.	0.	0.	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	03/04/63-04/06/66	4	70.	77.5	110.	60.	491.667	22.174	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	03/04/63-08/11/75	5	20.	32.	100.	10.	1470.	38.341	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	08/11/75-08/11/75	1 ##	25.	25.	25.	25.	0.	0.	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/11/75-08/11/75	1	190.	190.	190.	190.	0.	0.	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/04/63-08/11/75	5	286.	292.6	346.	270.	945.8	30.754	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/18/59-04/06/66	5	286.	288.8	305.	277.	143.2	11.967	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/18/59-04/14/65	4	0.38	0.38	0.39	0.37	0.	0.012	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	08/18/59-08/11/75	6	0.4	0.517	1.2	0.1	0.174	0.417	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0042

Parameter	Std. Type	Std. Value	Total			-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
			Obs	Exceed Standard	Prop. Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400 PH	Fresh Chronic	9.	5	0	0.00				4	0	0.00				1	0	0.00
	Other-Lo Lim.	6.5	5	0	0.00				4	0	0.00				1	0	0.00
00940 CHLORIDE, TOTAL IN WATER	Fresh Acute	860.	6	0	0.00				4	0	0.00				2	0	0.00
	Drinking Water	250.	6	0	0.00				4	0	0.00				2	0	0.00
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	250.	6	0	0.00				4	0	0.00				2	0	0.00
00950 FLUORIDE, DISSOLVED AS F	Drinking Water	4.	6	0	0.00				4	0	0.00				2	0	0.00
01002 ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00				4	0	0.00				1	0	0.00
	Drinking Water	50.	1	0	0.00										1	0	0.00
01092 ZINC, TOTAL	Fresh Acute	120.	1	1	1.00										1	1	1.00
	Drinking Water	5000.	1	0	0.00										1	0	0.00
71850 NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	6	0	0.00				4	0	0.00				2	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0043

NPS Station ID: TUZI0043
 Location: SEEPAGE PAST CLARKDALE ELKS LDGE
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 15060202
 Major Basin: COLORADO RIVER
 Minor Basin: GILA**SALT**VERDE
 RF1 Index: 15060202025
 RF3 Index: 15060202006601.27
 Description:

LAT/LON: 34.770838/-112.054171

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 13.980
 RF3 Mile Point: 3.37

Agency: 21ARIZ
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): 70265000000080/VR 019
 Within Park Boundary: No

Date Created: / /

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.55

On/Off RF1: ON
 On/Off RF3:

LAT 34 46'15", LONG 112 03'15", SW1/4 NE1/4, SEC 20, T16N, R3E, YAVAPAI CO, IN CLARKDALE, AZ, AT US89A, ON DOWNSTREAM SIDE OF CULVERT,
 ON RIGHT BANK, 1 KM (0.6 MI) UPSTREAM FROM CONFLUENCE WITH VERDE RIVER, AND 222.6 KM (139.1 MI) UPSTREAM FROM CONFLUENCE WITH SALT RIVER.

Parameter Inventory for Station: TUZI0043

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/30/73-08/15/73	6	15.5	15.917	21.	11.	17.442	4.176	**	**	**	**
00070 TURBIDITY, (JACKSON CANDLE UNITS)	08/09/73-08/22/73	3	0.4	0.567	1.	0.3	0.143	0.379	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/30/73-08/22/73	4	2200.	1987.5	2350.	1200.	287291.667	535.996	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	01/30/73-08/22/73	4	5.	5.45	9.3	2.5	8.143	2.854	**	**	**	**
00310 BOD, 5 DAY, 20 DEG C MG/L	02/07/73-02/07/73	1	4.2	4.2	4.2	4.2	0.	0.	**	**	**	**
00403 PH, LAB, STANDARD UNITS SU	01/30/73-08/22/73	5	7.9	7.94	8.3	7.7	0.053	0.23	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	01/30/73-08/22/73	5	7.9	7.897	8.3	7.7	0.055	0.235	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/30/73-08/22/73	5	0.013	0.013	0.02	0.005	0.	0.006	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	01/30/73-08/22/73	5	264.	268.	352.	212.	3074.	55.444	**	**	**	**
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	01/30/73-08/22/73	5	3065.	2651.4	3309.	1826.	526255.3	725.435	**	**	**	**
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	08/22/73-08/22/73	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	01/30/73-08/22/73	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00650 PHOSPHATE, TOTAL (MG/L AS PO4)	01/30/73-08/22/73	3 ##	0.025	0.083	0.2	0.025	0.01	0.101	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	01/30/73-08/22/73	5	1980.	1718.	2060.	1260.	164520.	405.611	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	01/30/73-08/22/73	5	300.	319.8	520.	228.	14026.2	118.432	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	01/30/73-08/22/73	5	172.	242.	422.	163.	12716.5	112.767	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS Na)	01/30/73-08/22/73	5	49.	48.8	60.	42.	55.7	7.463	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	01/30/73-08/22/73	5	41.	42.4	48.	39.	13.3	3.647	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	01/30/73-08/22/73	5	1600.	1300.	1650.	750.	210000.	458.258	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	01/30/73-02/06/73	2	0.41	0.41	0.42	0.4	0.	0.014	**	**	**	**
00997 ARSENIC, INORGANIC TOT (UG/L AS AS)	01/30/73-01/30/73	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01027 CADMIUM, TOTAL (UG/L AS Cd)	01/30/73-01/30/73	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01034 CHROMIUM, TOTAL (UG/L AS CR)	01/30/73-01/30/73	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042 COPPER, TOTAL (UG/L AS CU)	01/30/73-08/22/73	3 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01045 IRON, TOTAL (UG/L AS FE)	01/30/73-08/22/73	3 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01051 LEAD, TOTAL (UG/L AS PB)	01/30/73-01/30/73	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01055 MANGANESE, TOTAL (UG/L AS MN)	01/30/73-01/30/73	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01077 SILVER, TOTAL (UG/L AS AG)	01/30/73-01/30/73	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01092 ZINC, TOTAL (UG/L AS ZN)	01/30/73-01/30/73	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/31/73-01/31/73	1	8.	8.	8.	8.	0.	0.	**	**	**	**
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/31/73-01/31/73	1	0.903	0.903	0.903	0.903	0.	0.	**	**	**	**
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			8.								
71850 NITRATE NITROGEN,TOTAL (MG/L AS NO3)	01/30/73-08/22/73	5 ##	0.5	2.3	9.	0.5	14.075	3.752	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0043

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
71900 MERCURY, TOTAL (UG/L AS HG)	01/30/73-01/30/73	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0043

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00070 TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	3	0	0.00										3	0	0.00
00300 OXYGEN, DISSOLVED	Other-Lo Lim.	4.	4	1	0.25	1	0	0.00							3	1	0.33
00403 PH, LAB	Fresh Chronic	9.	5	0	0.00	2	0	0.00							3	0	0.00
	Other-Lo Lim.	6.5	5	0	0.00	2	0	0.00							3	0	0.00
00615 NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	1	0	0.00										1	0	0.00
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	5	0	0.00	2	0	0.00							3	0	0.00
	Drinking Water	250.	5	0	0.00	2	0	0.00							3	0	0.00
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	250.	5	5	1.00	2	2	1.00							3	3	1.00
00950 FLUORIDE, DISSOLVED AS F	Drinking Water	4.	2	0	0.00	2	0	0.00									
00997 ARSENIC, INORGANIC TOT	Fresh Acute	360.	1	0	0.00	1	0	0.00									
	Drinking Water	50.	1	0	0.00	1	0	0.00									
01027 CADMIUM, TOTAL	Fresh Acute	3.9	0 &	0	0.00												
	Drinking Water	5.	0 &	0	0.00												
01034 CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00	1	0	0.00									
01042 COPPER, TOTAL	Fresh Acute	18.	0 &	0	0.00												
	Drinking Water	1300.	3	0	0.00	2	0	0.00							1	0	0.00
01051 LEAD, TOTAL	Fresh Acute	82.	1	0	0.00	1	0	0.00									
	Drinking Water	15.	0 &	0	0.00												
01077 SILVER, TOTAL	Fresh Acute	4.1	0 &	0	0.00												
	Drinking Water	100.	1	0	0.00	1	0	0.00									
01092 ZINC, TOTAL	Fresh Acute	120.	1	0	0.00	1	0	0.00									
	Drinking Water	5000.	1	0	0.00	1	0	0.00									
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	1	0	0.00	1	0	0.00									
71850 NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	5	0	0.00	2	0	0.00							3	0	0.00
71900 MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
	Drinking Water	2.	1	0	0.00	1	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0044

NPS Station ID: TUZI0044
 Location: RIGHT FORK BITTER CREEK
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 15060202
 Major Basin: COLORADO RIVER
 Minor Basin: GILA**SALT**VERDE
 RF1 Index: 15060202025
 RF3 Index: 15060202006600.00
 Description:

LAT/LON: 34.770838/-112.064727

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 14.330
 RF3 Mile Point: 0.00

Agency: 21ARIZ
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): 702600100000000/VR 017
 Within Park Boundary: No

Date Created: / /

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.06

On/Off RF1: OFF
 On/Off RF3:

LAT 34 46'15", LONG 112 03'53", SE1/4 NE1/4, SEC 19, T16N, R3E, YAVAPAI CO, IN CLARKDALE, AZ, IN WEST END OF TOWN, 200 M (220 YDS)
 UPSTREAM FROM CONFLUENCE WITH LEFT FORK AND 1.7 KM (1 MI) UPSTREAM FROM CONFLUENCE WITH VERDE RIVER.

Parameter Inventory for Station: TUZI0044

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/08/73-02/08/73	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/08/73-02/08/73	1	1100.	1100.	1100.	1100.	0.	0.	**	**	**	**
00403 PH, LAB, STANDARD UNITS SU	02/08/73-02/08/73	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	02/08/73-02/08/73	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/08/73-02/08/73	1	0.013	0.013	0.013	0.013	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	02/08/73-02/08/73	1	204.	204.	204.	204.	0.	0.	**	**	**	**
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	02/08/73-02/08/73	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	02/08/73-02/08/73	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00720 CYANIDE, TOTAL (MG/L AS CN) MG/L	02/08/73-02/08/73	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	02/08/73-02/08/73	1	364.	364.	364.	364.	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	02/08/73-02/08/73	1	148.	148.	148.	148.	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	02/08/73-02/08/73	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS Na)	02/08/73-02/08/73	1	29.	29.	29.	29.	0.	0.	**	**	**	**
00940 CHLORIDE, TOTAL IN WATER MG/L	02/08/73-02/08/73	1	28.	28.	28.	28.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	02/08/73-02/08/73	1	500.	500.	500.	500.	0.	0.	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	02/08/73-02/08/73	1	0.36	0.36	0.36	0.36	0.	0.	**	**	**	**
00997 ARSENIC, INORGANIC TOT (UG/L AS AS)	02/08/73-02/08/73	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01027 CADMIUM, TOTAL (UG/L AS Cd)	02/08/73-02/08/73	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01034 CHROMIUM, TOTAL (UG/L AS CR)	02/08/73-02/08/73	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042 COPPER, TOTAL (UG/L AS CU)	02/08/73-02/08/73	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01045 IRON, TOTAL (UG/L AS FE)	02/08/73-02/08/73	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01051 LEAD, TOTAL (UG/L AS Pb)	02/08/73-02/08/73	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01077 SILVER, TOTAL (UG/L AS AG)	02/08/73-02/08/73	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
70301 SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	02/08/73-02/08/73	1	836.	836.	836.	836.	0.	0.	**	**	**	**
71850 NITRATE NITROGEN, TOTAL (MG/L AS NO3)	02/08/73-02/08/73	1	8.	8.	8.	8.	0.	0.	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS Hg)	02/08/73-02/08/73	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0044

Parameter	Std. Type	Std. Value	Total		Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
			Obs				Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00403 PH, LAB	Fresh Chronic	9.	1		0	0.00	1	0	0.00									
	Other-Lo Lim.	6.5	1		0	0.00	1	0	0.00									
00615 NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	1		0	0.00	1	0	0.00									
00720 CYANIDE, TOTAL	Fresh Acute	0.022	1		0	0.00	1	0	0.00									
	Drinking Water	0.2	1		0	0.00	1	0	0.00									
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1		0	0.00	1	0	0.00									
	Drinking Water	250.	1		0	0.00	1	0	0.00									
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1		1	1.00	1	1	1.00									
00950 FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1		0	0.00	1	0	0.00									
00997 ARSENIC, INORGANIC TOT	Fresh Acute	360.	1		0	0.00	1	0	0.00									
	Drinking Water	50.	1		0	0.00	1	0	0.00									
01027 CADMIUM, TOTAL	Fresh Acute	3.9	0 &		0	0.00												
	Drinking Water	5.	0 &		0	0.00												
01034 CHROMIUM, TOTAL	Drinking Water	100.	1		0	0.00	1	0	0.00									
01042 COPPER, TOTAL	Fresh Acute	18.	0 &		0	0.00												
	Drinking Water	1300.	1		0	0.00	1	0	0.00									
01051 LEAD, TOTAL	Fresh Acute	82.	1		0	0.00	1	0	0.00									
	Drinking Water	15.	0 &		0	0.00												
01077 SILVER, TOTAL	Fresh Acute	4.1	0 &		0	0.00												
	Drinking Water	100.	1		0	0.00	1	0	0.00									
71850 NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	1		0	0.00	1	0	0.00									
71900 MERCURY, TOTAL	Fresh Acute	2.4	1		0	0.00	1	0	0.00									
	Drinking Water	2.	1		0	0.00	1	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0045

NPS Station ID: TUZI0045
 Location: TRIBUTARY TO BITTER CREEK
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 15060202
 Major Basin: COLORADO RIVER
 Minor Basin: GILA**SALT**VERDE
 RF1 Index: 15060202
 RF3 Index: 15060202086800.00
 Description:

LAT/LON: 34.770838/-112.079170

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.10

Agency: 21ARIZ
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): 702600250000200/VR 016
 Within Park Boundary: No

Date Created: / /

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.05

On/Off RF1:
 On/Off RF3:

LAT 34 46'15", LONG 112 04'45", SW1/4 NW1/4, SEC 19, T16N, R3E, YAVAPAI CO, WEST OF CLARKDALE, AZ, JUST SOUTH OF PHOENIX CEMENT PLANT,
 AT BRIDGE CROSSING UPSTREAM FROM FLOW ADJACENT TO PLANT, 1.1 KM (0.7 MI) UPSTREAM FROM CONFLUENCE WITH BITTER CREEK, 3.4 KM (2.1 MI) UPSTREAM
 FROM CONFLUENCE WITH VERDE RIVER.

Parameter Inventory for Station: TUZI0045

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/08/73-02/08/73	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/08/73-02/08/73	1	4500.	4500.	4500.	4500.	0.	0.	**	**	**	**
00403 PH, LAB, STANDARD UNITS SU	02/08/73-02/08/73	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	02/08/73-02/08/73	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/08/73-02/08/73	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	02/08/73-02/08/73	1	644.	644.	644.	644.	0.	0.	**	**	**	**
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	02/08/73-02/08/73	1	7143.	7143.	7143.	7143.	0.	0.	**	**	**	**
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	02/08/73-02/08/73	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00650 PHOSPHATE, TOTAL (MG/L AS PO4)	02/08/73-02/08/73	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00720 CYANIDE, TOTAL (MG/L AS CN) MG/L	02/08/73-02/08/73	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	02/08/73-02/08/73	1	5680.	5680.	5680.	5680.	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	02/08/73-02/08/73	1	950.	950.	950.	950.	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	02/08/73-02/08/73	1	1135.	1135.	1135.	1135.	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS Na)	02/08/73-02/08/73	1	64.	64.	64.	64.	0.	0.	**	**	**	**
00940 CHLORIDE, TOTAL IN WATER MG/L	02/08/73-02/08/73	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	02/08/73-02/08/73	1	4700.	4700.	4700.	4700.	0.	0.	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	02/08/73-02/08/73	1	0.42	0.42	0.42	0.42	0.	0.	**	**	**	**
00997 ARSENIC, INORGANIC TOT (UG/L AS AS)	02/08/73-02/08/73	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01027 CADMIUM, TOTAL (UG/L AS Cd)	02/08/73-02/08/73	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01034 CHROMIUM, TOTAL (UG/L AS CR)	02/08/73-02/08/73	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042 COPPER, TOTAL (UG/L AS CU)	02/08/73-02/08/73	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01045 IRON, TOTAL (UG/L AS FE)	02/08/73-02/08/73	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01051 LEAD, TOTAL (UG/L AS Pb)	02/08/73-02/08/73	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01077 SILVER, TOTAL (UG/L AS AG)	02/08/73-02/08/73	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
71850 NITRATE NITROGEN, TOTAL (MG/L AS NO3)	02/08/73-02/08/73	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS Hg)	02/08/73-02/08/73	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0045

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00403	PH, LAB																
	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
	Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00615	NITRITE NITROGEN, TOTAL AS N																
	Drinking Water	1.	1	0	0.00	1	0	0.00									
00720	CYANIDE, TOTAL																
	Fresh Acute	0.022	1	0	0.00	1	0	0.00									
	Drinking Water	0.2	1	0	0.00	1	0	0.00									
00940	CHLORIDE,TOTAL IN WATER																
	Fresh Acute	860.	1	0	0.00	1	0	0.00									
	Drinking Water	250.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)																
	Drinking Water	250.	1	1	1.00	1	1	1.00									
00950	FLUORIDE, DISSOLVED AS F																
	Drinking Water	4.	1	0	0.00	1	0	0.00									
00997	ARSENIC, INORGANIC TOT																
	Fresh Acute	360.	1	0	0.00	1	0	0.00									
	Drinking Water	50.	1	0	0.00	1	0	0.00									
01027	CADMIUM, TOTAL																
	Fresh Acute	3.9	0 &	0	0.00												
	Drinking Water	5.	0 &	0	0.00												
01034	CHROMIUM, TOTAL																
	Drinking Water	100.	1	0	0.00	1	0	0.00									
01042	COPPER, TOTAL																
	Fresh Acute	18.	0 &	0	0.00												
	Drinking Water	1300.	1	0	0.00	1	0	0.00									
01051	LEAD, TOTAL																
	Fresh Acute	82.	1	0	0.00	1	0	0.00									
	Drinking Water	15.	0 &	0	0.00												
01077	SILVER, TOTAL																
	Fresh Acute	4.1	0 &	0	0.00												
	Drinking Water	100.	1	0	0.00	1	0	0.00									
71850	NITRATE NITROGEN, TOTAL (AS NO3)																
	Drinking Water	44.	1	0	0.00	1	0	0.00									
71900	MERCURY, TOTAL																
	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
	Drinking Water	2.	1	0	0.00	1	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0046

NPS Station ID: TUZI0046
 Location: VERDE RIVER ABOVE DECEPTION GULCH
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 15060202
 Major Basin: COLORADO RIVER
 Minor Basin: GILA**SALT**VERDE
 RF1 Index: 15060202025
 RF3 Index: 15060202002514.22
 Description:

LAT/LON: 34.771226/-112.043755

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 13.730
 RF3 Mile Point: 14.24

Agency: 21ARIZ
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): 700000000022160/VR 020 /VV05
 Within Park Boundary: No

Date Created: / /

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.01

On/Off RF1: ON
 On/Off RF3:

LAT 34 46'16.4", LONG 112 02'37.5", SW1/4 NW1/4, SEC 21, T16N, R2E, YAVAPAI CO, AT OLD ABANDONED BRIDGE AT EAST END OF CLARKDALE, AZ, 10 M
 (11 YDS) DOWNSTREAM FROM BRIDGE ON RIGHT BANK, 228.7 KM (142.7 MI) UPSTREAM FROM CONFLUENCE WITH SALT RIVER.
 INTENSIVE SURVEY NO. 800401 WAS CONDUCTED IN ASSOCIATION WITH NACOG, STARTING FEB, 1980.

Parameter Inventory for Station: TUZI0046

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/26/73-12/09/80	19	15.8	17.9	30.	7.	67.524	8.217	8.5	10.	26.	30.
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/12/80-12/09/80	11	20.5	24.545	36.	10.	77.823	8.822	11.2	19.	34.	35.8
00061 FLOW, STREAM, INSTANTANEOUS CFS	01/26/73-12/09/80	11	81.	99.273	280.	72.	3656.218	60.467	72.6	76.	85.	244.4
00070 TURBIDITY, (JACKSON CANDLE UNITS)	08/09/73-08/22/73	3	10.	8.667	10.	6.	5.333	2.309	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	02/12/80-12/09/80	11	8.2	14.164	60.	1.3	406.293	20.157	1.32	1.7	10.	57.6
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	02/12/80-12/09/80	9	540.	542.222	610.	460.	1444.444	38.006	460.	540.	550.	610.
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/26/73-04/16/80	9	460.	468.222	590.	279.	8378.444	91.534	279.	422.5	540.	590.
00300 OXYGEN, DISSOLVED MG/L	01/30/73-12/09/80	15	8.5	8.173	11.	3.8	2.654	1.629	5.36	7.3	8.8	10.28
00400 PH (STANDARD UNITS)	02/12/80-12/09/80	11	8.1	8.135	8.5	7.78	0.038	0.195	7.824	8.	8.2	8.48
00400 CONVERTED PH (STANDARD UNITS)	02/12/80-12/09/80	11	8.1	8.096	8.5	7.78	0.04	0.199	7.824	8.	8.2	8.48
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/12/80-12/09/80	11	0.008	0.008	0.017	0.003	0.	0.004	0.003	0.006	0.01	0.015
00403 PH, LAB, STANDARD UNITS SU	01/26/73-04/16/80	9	8.2	7.922	8.5	5.5	0.869	0.932	5.5	7.95	8.4	8.5
00403 CONVERTED PH, LAB, STANDARD UNITS	01/26/73-04/16/80	9	8.2	6.447	8.5	5.5	3.318	1.822	5.5	7.95	8.4	8.5
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/26/73-04/16/80	9	0.006	0.357	3.162	0.003	1.106	1.052	0.003	0.004	0.012	3.162
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	01/26/73-04/16/80	9	222.	206.889	254.	92.	2597.111	50.962	92.	185.	247.	254.
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)	02/12/80-04/16/80	3	0.	0.	0.	0.	0.	0.	**	**	**	**
00500 RESIDUE, TOTAL (MG/L)	02/12/80-04/16/80	3	266.	265.667	285.	246.	380.333	19.502	**	**	**	**
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/09/73-08/22/73	3	307.	308.667	323.	296.	184.333	13.577	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/18/80-03/18/80	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00600 NITROGEN, TOTAL (MG/L AS N)	06/17/80-12/09/80	8	0.35	0.381	0.8	0.05	0.063	0.251	**	**	**	**
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	01/26/73-04/16/80	6 ##	0.005	0.062	0.3	0.005	0.014	0.118	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	01/30/73-12/09/80	14	0.31	0.359	0.8	0.05	0.042	0.205	0.05	0.22	0.5	0.65
00630 NITRITE PLUS NITRATE, TOTAL I DET. (MG/L AS N)	06/17/80-12/09/80	8	0.12	0.109	0.21	0.03	0.004	0.061	**	**	**	**
00650 PHOSPHATE, TOTAL (MG/L AS PO4)	01/26/73-12/09/80	12	0.07	0.096	0.26	0.005	0.007	0.085	0.01	0.025	0.183	0.242
00665 PHOSPHORUS, TOTAL (MG/L AS P)	02/12/80-04/16/80	3	0.04	0.047	0.06	0.04	0.	0.012	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	01/26/73-04/16/80	9	260.	251.222	352.	139.	5061.944	71.147	139.	191.	314.	352.
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	01/26/73-08/22/73	6	66.	62.167	69.	44.	86.567	9.304	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS Ca)	02/12/80-04/16/80	3	45.	43.333	50.	35.	58.333	7.638	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	01/26/73-08/22/73	6	26.	25.333	36.	9.	90.667	9.522	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)	02/12/80-04/16/80	3	16.	15.333	18.	12.	9.333	3.055	**	**	**	**
00929 SODIUM, TOTAL (MG/L AS Na)	02/12/80-04/16/80	3	12.	14.667	20.	12.	21.333	4.619	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0046

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00930	SODIUM, DISSOLVED (MG/L AS NA)	01/26/73-08/22/73	6	24.5	29.	50.	22.	113.6	10.658	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	04/16/80-04/16/80	1	2.	2.	2.	2.	0.	**	**	**	**
00940	CHLORIDE, TOTAL IN WATER MG/L	01/26/73-12/09/80	12	14.	12.25	16.	6.	15.295	3.911	6.	7.75	15.
00945	SULFATE, TOTAL (MG/L AS SO4)	01/26/73-12/09/80	17	46.	45.824	77.	2.	277.904	16.67	23.6	41.	50.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	01/30/73-02/06/73	2	0.25	0.25	0.26	0.24	0.	0.014	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	02/12/80-04/16/80	3	0.16	0.153	0.17	0.13	0.	0.021	**	**	**
00997	ARSENIC, INORGANIC TOT (UG/L AS AS)	01/30/73-08/22/73	3 ##	5.	5.	5.	5.	0.	0.	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	04/16/80-04/16/80	1	6.	6.	6.	6.	0.	0.	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	02/12/80-04/16/80	3	7.	8.	14.	3.	31.	5.568	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	04/16/80-04/16/80	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	01/30/73-08/26/80	8 ##	5.	5.031	10.	0.25	12.151	3.486	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	01/30/73-08/26/80	8 ##	15.	15.	25.	5.	114.286	10.69	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	04/16/80-04/16/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	01/26/73-08/26/80	10 ##	25.	35.	80.	25.	450.	21.213	25.	25.	36.25
01045	IRON, TOTAL (UG/L AS FE)	01/26/73-04/16/80	8 ##	25.	466.875	2400.	25.	678778.125	823.88	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	04/16/80-04/16/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	04/16/80-04/16/80	1 ##	10.	10.	10.	10.	0.	0.	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	01/30/73-04/16/80	6 ##	17.5	17.5	25.	10.	67.5	8.216	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	01/30/73-04/16/80	4 ##	37.5	100.	300.	25.	17916.667	133.853	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/16/80-04/16/80	1	70.	70.	70.	70.	0.	0.	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	01/30/73-03/18/80	4 ##	5.	10.	25.	5.	100.	10.	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	04/16/80-04/16/80	1	380.	380.	380.	380.	0.	0.	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	01/30/73-08/26/80	8	260.	257.5	540.	25.	43785.714	209.25	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	04/16/80-04/16/80	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	02/12/80-08/26/80	5 ##	2.5	3.5	5.	2.5	1.875	1.369	**	**	**
31613	FECAL COLIFORM, MEMBR FILTER, M-FC AGAR, 44.5C, 24HR	04/16/80-12/09/80	9	10.	12.	47.	1.	190.	13.784	1.	3.5	12.
31613	LOG FECAL COLIFORM, MEMBR FILTER, M-FC AGAR, 44.5C, 24	04/16/80-12/09/80	9	1.	0.84	1.672	0.	0.286	0.535	0.	0.389	1.079
31613	GM FECAL COLIFORM, MEMBR FILTER, M-FC AGAR, 44.5C, 24H	GEOMETRIC MEAN =			6.923							
31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	01/29/73-05/20/80	6	0.75	57.167	193.	0.	7909.267	88.934	**	**	**
31616	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	01/29/73-05/20/80	6	-0.151	0.642	2.286	-0.301	1.528	1.236	**	**	**
31616	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN =			4.388							
31673	FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	04/16/80-12/09/80	11	30.	42.364	150.	13.	1474.855	38.404	13.8	18.	52.
31673	LOG FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	04/16/80-12/09/80	11	1.477	1.521	2.176	1.114	0.087	0.295	1.137	1.255	1.716
31673	GM FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	GEOMETRIC MEAN =			33.161							
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	01/26/73-02/06/73	3	337.	342.	363.	326.	361.	19.	**	**	**
71850	NITRATE NITROGEN, TOTAL (MG/L AS NO3)	01/26/73-04/16/80	9 ##	0.5	0.751	2.	0.005	0.53	0.728	0.005	0.375	1.25
71890	MERCURY, DISSOLVED (UG/L AS HG)	04/16/80-04/16/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	01/30/73-08/26/80	8 ##	0.25	0.213	0.25	0.1	0.005	0.069	**	**	**
82079	TURBIDITY, LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	02/12/80-04/16/80	3	10.	26.333	60.	9.	850.333	29.16	**	**	**

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EPA Water Quality Criteria Analysis for Station: TUZI0046

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	3	0	0.00									3	0	0.00
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	11	1	0.09	3	0	0.00	3	1	0.33	1	0	4	0	0.00
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	15	1	0.07	4	0	0.00	3	0	0.00	1	0	7	1	0.14
00400	PH	Fresh Chronic	9.	11	0	0.00	3	0	0.00	3	0	0.00	1	0	4	0	0.00
		Other-Lo Lim.	6.5	11	0	0.00	3	0	0.00	3	0	0.00	1	0	4	0	0.00
00403	PH, LAB	Fresh Chronic	9.	9	0	0.00	3	0	0.00	3	0	0.00			3	0	0.00
		Other-Lo Lim.	6.5	9	1	0.11	3	0	0.00	3	1	0.33			3	0	0.00
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	6	0	0.00	2	0	0.00	3	0	0.00			1	0	0.00
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	8	0	0.00	3	0	0.00				1	0	4	0	0.00
00940	CHLORIDE, TOTAL IN WATER	Fresh Acute	860.	12	0	0.00	6	0	0.00	3	0	0.00			3	0	0.00
		Drinking Water	250.	12	0	0.00	6	0	0.00	3	0	0.00			3	0	0.00
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	17	0	0.00	6	0	0.00	3	0	0.00	1	0	7	0	0.00
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	2	0	0.00	2	0	0.00								
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	3	0	0.00				3	0	0.00					

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: TUZI0046

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00997 ARSENIC, INORGANIC TOT	Fresh Acute	360.	3	0	0.00	1	0	0.00							2	0	0.00
	Drinking Water	50.	3	0	0.00	1	0	0.00							2	0	0.00
01000 ARSENIC, DISSOLVED	Fresh Acute	360.	1	0	0.00				1	0	0.00						
	Drinking Water	50.	1	0	0.00				1	0	0.00						
01002 ARSENIC, TOTAL	Fresh Acute	360.	3	0	0.00				3	0	0.00						
	Drinking Water	50.	3	0	0.00				3	0	0.00						
01025 CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0	0.00				1	0	0.00						
	Drinking Water	5.	1	0	0.00				1	0	0.00						
01027 CADMIUM, TOTAL	Fresh Acute	3.9	3 &	0	0.00				3	0	0.00						
	Drinking Water	5.	3 &	0	0.00				3	0	0.00						
01034 CHROMIUM, TOTAL	Drinking Water	100.	8	0	0.00	1	0	0.00	3	0	0.00				4	0	0.00
01040 COPPER, DISSOLVED	Fresh Acute	18.	0 &	0	0.00												
	Drinking Water	1300.	1	0	0.00				1	0	0.00						
01042 COPPER, TOTAL	Fresh Acute	18.	2 &	2	1.00				2	2	1.00						
	Drinking Water	1300.	10	0	0.00	3	0	0.00	3	0	0.00				4	0	0.00
01049 LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00				1	0	0.00						
	Drinking Water	15.	1	0	0.00				1	0	0.00						
01051 LEAD, TOTAL	Fresh Acute	82.	6	0	0.00	1	0	0.00	3	0	0.00				2	0	0.00
	Drinking Water	15.	3 &	0	0.00				3	0	0.00						
01077 SILVER, TOTAL	Fresh Acute	4.1	0 &	0	0.00												
	Drinking Water	100.	4	0	0.00	1	0	0.00	1	0	0.00				2	0	0.00
01090 ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00				1	1	1.00						
	Drinking Water	5000.	1	0	0.00				1	0	0.00						
01092 ZINC, TOTAL	Fresh Acute	120.	8	5	0.63	1	0	0.00	3	3	1.00				4	2	0.50
	Drinking Water	5000.	8	0	0.00	1	0	0.00	3	0	0.00				4	0	0.00
01145 SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00				1	0	0.00						
	Drinking Water	50.	1	0	0.00				1	0	0.00						
01147 SELENIUM, TOTAL	Fresh Acute	20.	5	0	0.00				3	0	0.00				2	0	0.00
	Drinking Water	50.	5	0	0.00				3	0	0.00				2	0	0.00
31613 FECAL COLIFORM, MEMBRANE FILTER, AGAR	Other-Hi Lim.	200.	9	0	0.00	3	0	0.00	1	0	0.00	1	0	0.00	4	0	0.00
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	6	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00	2	0	0.00
71850 NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	9	0	0.00	3	0	0.00	3	0	0.00				3	0	0.00
71890 MERCURY, DISSOLVED	Fresh Acute	2.4	1	0	0.00				1	0	0.00						
	Drinking Water	2.	1	0	0.00				1	0	0.00						
71900 MERCURY, TOTAL	Fresh Acute	2.4	8	0	0.00	1	0	0.00	3	0	0.00				4	0	0.00
	Drinking Water	2.	8	0	0.00	1	0	0.00	3	0	0.00				4	0	0.00
82079 TURBIDITY, LAB	Other-Hi Lim.	50.	3	1	0.33				3	1	0.33						

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0047

NPS Station ID: TUZI0047 LAT/LON: 34.771671/-112.043616
 Location: VERDE R. AT OLD BRIDGE SITE AT CLARKDALE,AZ.
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 15060202 Depth of Water: 0
 Major Basin: Elevation: 0
 Minor Basin:
 RF1 Index: 15060202 RF1 Mile Point: 0.000
 RF3 Index: 15060202054900.00 RF3 Mile Point: 0.00
 Description:

Agency: 112WRD
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): 344618112023700
 Within Park Boundary: No

Date Created: 02/23/80

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 3.10
 Distance from RF3: 0.00

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: TUZI0047

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/12/79-06/12/79	1	23.	23.	23.	23.	0.	0.	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS CFS	06/12/79-06/12/79	1	74.	74.	74.	74.	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/12/79-06/12/79	1	599.	599.	599.	599.	0.	0.	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	06/12/79-06/12/79	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)	06/12/79-06/12/79	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	06/12/79-06/12/79	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/12/79-06/12/79	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
00405 CARBON DIOXIDE (MG/L AS CO2)	06/12/79-06/12/79	1	3.6	3.6	3.6	3.6	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	06/12/79-06/12/79	1	230.	230.	230.	230.	0.	0.	**	**	**	**
00440 BICARBONATE ION (MG/L AS HCO3)	06/12/79-06/12/79	1	280.	280.	280.	280.	0.	0.	**	**	**	**
00445 CARBONATE ION (MG/L AS CO3)	06/12/79-06/12/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00631 NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	06/12/79-06/12/79	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)	06/12/79-06/12/79	1	250.	250.	250.	250.	0.	0.	**	**	**	**
00902 HARDNESS, NON-CARBONATE (MG/L AS CACO3)	06/12/79-06/12/79	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS CA)	06/12/79-06/12/79	1	53.	53.	53.	53.	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	06/12/79-06/12/79	1	28.	28.	28.	28.	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS NA)	06/12/79-06/12/79	1	24.	24.	24.	24.	0.	0.	**	**	**	**
00931 SODIUM ADSORPTION RATIO	06/12/79-06/12/79	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00932 SODIUM, PERCENT	06/12/79-06/12/79	1	17.	17.	17.	17.	0.	0.	**	**	**	**
00933 SODIUM,PLUS POTASSIUM (MG/L)	06/12/79-06/12/79	1	27.	27.	27.	27.	0.	0.	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	06/12/79-06/12/79	1	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	06/12/79-06/12/79	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	06/12/79-06/12/79	1	42.	42.	42.	42.	0.	0.	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	06/12/79-06/12/79	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SI02)	06/12/79-06/12/79	1	16.	16.	16.	16.	0.	0.	**	**	**	**
01020 BORON, DISSOLVED (UG/L AS B)	06/12/79-06/12/79	1	170.	170.	170.	170.	0.	0.	**	**	**	**
01025 CADMIUM, DISSOLVED (UG/L AS CD)	06/12/79-06/12/79	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01026 CADMIUM, SUSPENDED (UG/L AS CD)	06/12/79-06/12/79	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01027 CADMIUM, TOTAL (UG/L AS CD)	06/12/79-06/12/79	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01046 IRON, DISSOLVED (UG/L AS FE)	06/12/79-06/12/79	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01049 LEAD, DISSOLVED (UG/L AS PB)	06/12/79-06/12/79	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01050 LEAD, SUSPENDED (UG/L AS PB)	06/12/79-06/12/79	1	9.	9.	9.	9.	0.	0.	**	**	**	**
01051 LEAD, TOTAL (UG/L AS PB)	06/12/79-06/12/79	1	11.	11.	11.	11.	0.	0.	**	**	**	**
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	06/12/79-06/12/79	1	319.	319.	319.	319.	0.	0.	**	**	**	**
70301 SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/12/79-06/12/79	1	319.	319.	319.	319.	0.	0.	**	**	**	**
70302 SOLIDS, DISSOLVED-TONS PER DAY	06/12/79-06/12/79	1	63.7	63.7	63.7	63.7	0.	0.	**	**	**	**
70303 SOLIDS, DISSOLVED-TONS PER ACRE-FT	06/12/79-06/12/79	1	0.43	0.43	0.43	0.43	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0047

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300 OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00							1	0	0.00			
00400 PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
	Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
00631 NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00							1	0	0.00			
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00							1	0	0.00			
	Drinking Water	250.	1	0	0.00							1	0	0.00			
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00							1	0	0.00			
00950 FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00							1	0	0.00			
01025 CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0	0.00							1	0	0.00			
	Drinking Water	5.	1	0	0.00							1	0	0.00			
01026 CADMIUM, SUSPENDED	Fresh Acute	3.9	1	0	0.00							1	0	0.00			
	Drinking Water	5.	1	0	0.00							1	0	0.00			
01027 CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00							1	0	0.00			
	Drinking Water	5.	1	0	0.00							1	0	0.00			
01049 LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00							1	0	0.00			
	Drinking Water	15.	1	0	0.00							1	0	0.00			
01050 LEAD, SUSPENDED	Fresh Acute	82.	1	0	0.00							1	0	0.00			
	Drinking Water	15.	1	0	0.00							1	0	0.00			
01051 LEAD, TOTAL	Fresh Acute	82.	1	0	0.00							1	0	0.00			
	Drinking Water	15.	1	0	0.00							1	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0048

NPS Station ID: TUZI0048 Location: TAILINGS POND SOUTH OF PECKS LAKE Station Type: /RESERV/TYPA/AMBNT/SOLIDS/MINE RMI-Indexes: RMI-Miles: HUC: 15060202 Major Basin: COLORADO RIVER Minor Basin: GILA RIVER RF1 Index: 15060202 RF3 Index: 15060202002505.59 Description: THE STATION IS LOCATED ON THE CLARKDALE AZ-YAVAPAI COUNTY 7.5 MINUTE TAILINGS POND SOUTH OF PECKS LAKE. THE SITE IS LOCATED WITHIN THE SCREENING INVESTIGATION REPORT FOR THE PHELPS DODGE VERDE MINE AREA WAS CONDUCTED TO DETERMINE IF METALS ARE BEING RELEASED INTO THE RIVER AND "CONTAINS APPROXIMATELY 4 MILLION TONS OF MINING WASTES." ESTIMATED FROM ANALYTICAL MEASUREMENTS. FOR MORE INFORMATION CONTACT (520-634-5564). DATA WERE PROCESSED AND UPLOADED TO STORET BY 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (970-225-3516).	LAT/LON: 34.772615/-112.036587 Depth of Water: 0 Elevation: 0 RF1 Mile Point: 0.000 RF3 Mile Point: 6.29	Agency: 11NPSWRD FIPS State/County: 04025 ARIZONA/YAVAPAI STORET Station ID(s): TUZI_EPA_EE03 Within Park Boundary: Yes Aquifer: Water Body Id: ECO Region: Distance from RF1: 0.00 Distance from RF3: 0.01	Date Created: 11/28/98 On/Off RF1: On/Off RF3:
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Parameter Inventory for Station: TUZI0048

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00917 CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	06/29/92-06/29/92	1	50000.	50000.	50000.	50000.	0.	0.	**	**	**	**
00924 MAGNESIUM IN BOTTOM DEPOSITS (MG/KG AS MG DRY WGT)	06/29/92-06/29/92	1	4990.	4990.	4990.	4990.	0.	0.	**	**	**	**
01003 ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/29/92-06/29/92	1	2000.	2000.	2000.	2000.	0.	0.	**	**	**	**
01008 BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/29/92-06/29/92	1	129.	129.	129.	129.	0.	0.	**	**	**	**
01038 COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	06/29/92-06/29/92	1	31.8	31.8	31.8	31.8	0.	0.	**	**	**	**
01043 COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/29/92-06/29/92	1	3300.	3300.	3300.	3300.	0.	0.	**	**	**	**
01053 MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/29/92-06/29/92	1	112.	112.	112.	112.	0.	0.	**	**	**	**
01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	06/29/92-06/29/92	1 ##	3.75	3.75	3.75	3.75	0.	0.	**	**	**	**
01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/29/92-06/29/92	1	105.	105.	105.	105.	0.	0.	**	**	**	**
01088 VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	06/29/92-06/29/92	1	27.5	27.5	27.5	27.5	0.	0.	**	**	**	**
01098 ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	06/29/92-06/29/92	1	51.5	51.5	51.5	51.5	0.	0.	**	**	**	**
01108 ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/29/92-06/29/92	1	7360.	7360.	7360.	7360.	0.	0.	**	**	**	**
01148 SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/29/92-06/29/92	1	219.	219.	219.	219.	0.	0.	**	**	**	**
01170 IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/29/92-06/29/92	1	373000.	373000.	373000.	373000.	0.	0.	**	**	**	**
81373 SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	06/29/92-06/29/92	1	47.9	47.9	47.9	47.9	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: TUZI0049

NPS Station ID: TUZI0049 LAT/LON: 34.772726/-112.020948

Location: DRAINAGE CHANNEL LEADING OUT OF TAVASCI MARSH

Station Type: /CANAL/TYPA/AMBNT/MINE

RMI-Indexes:

RMI-Miles:

HUC: 15060202

Major Basin: COLORADO RIVER

Minor Basin: GILA RIVER

RF1 Index: 15060202

RF3 Index: 15060202002505.59

Description:

THE STATION IS LOCATED ON THE CLARKDALE AZ-YAVAPAI COUNTY 7.5 MINUTE SERIES (TOPO.) QUAD. THE SAMPLES INCLUDE SURFACE WATER AND SEDIMENT FROM THE DRAINAGE CHANNEL LEADING OUT OF TAVASCI MARSH AND UPSTREAM OF CULVERT AT DIRT ROAD. THIS SITE IS LOCATED WITHIN THE TUZIGOOT NATIONAL MONUMENT (TUZI) BOUNDARY. THE DATA ARE FROM AN EXPANDED SITE INSPECTION REPORT FOR THE PHELPS DODGE VERDE MINE AREA BY ECOLOGY AND ENVIRONMENT; INC. UNDER CONTRACT BY THE EPA. THE STUDY WAS CONDUCTED TO DETERMINE IF METALS ARE BEING RELEASED INTO THE ENVIRONMENT FROM A 116 ACRE TAILINGS PILE WHICH IS ADJACENT TO THE VERDE RIVER AND "CONTAINS APPROXIMATELY 4 MILLION TONS OF MINING WASTES." NPS STAFF ASSIGNED "J" STORET REMARK CODES TO VALUES THAT WERE ESTIMATED FROM ANALYTICAL MEASUREMENTS. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT TUZI; PO BOX 219; CAMP VERDE AZ 86332 (520-634-5564). DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NPS WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (970-225-3516).

Agency: 11NPSWRD

FIPS State/County: 04025 ARIZONA/YAVAPAI

STORET Station ID(s): TUZI_EPA_02

Within Park Boundary: Yes

Date Created: 09/26/98

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 6.29

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.01

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: TUZI0049

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/04/93-08/04/93	1	102000.	102000.	102000.	102000.	0.	0.	**	**	**	**
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/04/93-08/04/93	1	13500.	13500.	13500.	13500.	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	08/04/93-08/04/93	1	34.7	34.7	34.7	34.7	0.	0.	**	**	**	**
00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/04/93-08/04/93	1	3580.	3580.	3580.	3580.	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	08/04/93-08/04/93	1	24.	24.	24.	24.	0.	0.	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/04/93-08/04/93	1	18.7	18.7	18.7	18.7	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/04/93-08/04/93	1	297.	297.	297.	297.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	08/04/93-08/04/93	1 ##	0.15	0.15	0.15	0.15	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	08/04/93-08/04/93	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	1 ##	0.85	0.85	0.85	0.85	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	1	25.9	25.9	25.9	25.9	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	08/04/93-08/04/93	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	08/04/93-08/04/93	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	08/04/93-08/04/93	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/04/93-08/04/93	1	85.4	85.4	85.4	85.4	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/04/93-08/04/93	1	39.7	39.7	39.7	39.7	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/04/93-08/04/93	1	266.	266.	266.	266.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	08/04/93-08/04/93	1	458.	458.	458.	458.	0.	0.	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	08/04/93-08/04/93	1 ##	0.45	0.45	0.45	0.45	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0049

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01067 NICKEL, TOTAL (UG/L AS NI)	08/04/93-08/04/93	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	08/04/93-08/04/93	1	23.	23.	23.	23.	0.	0.	**	**	**	**
01077 SILVER, TOTAL (UG/L AS AG)	08/04/93-08/04/93	1 ##	1.45	1.45	1.45	1.45	0.	0.	**	**	**	**
01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/04/93-08/04/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01081 STRONTIUM, SUSPENDED (UG/L AS SR)	08/04/93-08/04/93	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01088 VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/04/93-08/04/93	1	37.8	37.8	37.8	37.8	0.	0.	**	**	**	**
01093 ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/04/93-08/04/93	1	86.4	86.4	86.4	86.4	0.	0.	**	**	**	**
01098 ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	08/04/93-08/04/93	1 ##	4.3	4.3	4.3	4.3	0.	0.	**	**	**	**
01108 ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/04/93-08/04/93	1	18100.	18100.	18100.	18100.	0.	0.	**	**	**	**
01153 TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/04/93-08/04/93	1 ##	0.12	0.12	0.12	0.12	0.	0.	**	**	**	**
01170 IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/04/93-08/04/93	1	14000.	14000.	14000.	14000.	0.	0.	**	**	**	**
04133 MERCURY, BED MAT, DRY WT, SEDIMENT,	08/04/93-08/04/93	1 ##	0.045	0.045	0.045	0.045	0.	0.	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)	08/04/93-08/04/93	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
81373 SOLIDS IN SEDIMENT SAMPLE PERCENT DRY WEIGHT (%)	08/04/93-08/04/93	2	52.	52.	52.1	51.9	0.02	0.141	**	**	**	**
81951 TOTAL ORGANIC CARBON(TOC) SEDIMENT DRY WEIGHT MG/KG	08/04/93-08/04/93	1	20200.	20200.	20200.	20200.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0049

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
			Obs			Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
01002 ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00										1	0	0.00
	Drinking Water	50.	1	0	0.00										1	0	0.00
01012 BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00										1	0	0.00
	Drinking Water	4.	1	0	0.00										1	0	0.00
01027 CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00										1	0	0.00
	Drinking Water	5.	1	0	0.00										1	0	0.00
01034 CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00										1	0	0.00
	Fresh Acute	18.	1	0	0.00										1	0	0.00
01042 COPPER, TOTAL	Drinking Water	1300.	1	0	0.00										1	0	0.00
	Fresh Acute	1400.	1	0	0.00										1	0	0.00
01059 THALLIUM, TOTAL	Drinking Water	2.	1	0	0.00										1	0	0.00
	Fresh Acute	1400.	1	0	0.00										1	0	0.00
01067 NICKEL, TOTAL	Drinking Water	100.	1	0	0.00										1	0	0.00
	Fresh Acute	4.1	1	0	0.00										1	0	0.00
01077 SILVER, TOTAL	Drinking Water	100.	1	0	0.00										1	0	0.00
	Fresh Acute	2.4	1	0	0.00										1	0	0.00
71900 MERCURY, TOTAL	Drinking Water	2.	1	0	0.00										1	0	0.00
	Fresh Acute	2.	1	0	0.00										1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0050

NPS Station ID: TUZI0050 LAT/LON: 34.772726/-112.038754
 Location: POND AT FOOT OF DAM; SOUTHEAST OF DIRT ROAD
 Station Type: /TYPA/AMBNT/LAKE/MINE
 RMI-Indexes:
 RMI-Miles:
 HUC: 15060202 Depth of Water: 0
 Major Basin: COLORADO RIVER Elevation: 0
 Minor Basin: GILA RIVER
 RF1 Index: 15060202 RF1 Mile Point: 0.000
 RF3 Index: 15060202002505.59 RF3 Mile Point: 6.29
 Description:

Agency: 11NPSWRD
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): TUZI_EPA_06
 Within Park Boundary: Yes

Date Created: 09/26/98

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.01

On/Off RF1:
 On/Off RF3:

THE STATION IS LOCATED ON THE CLARKDALE AZ-YAVAPAI COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SAMPLING WAS DONE ON SEDIMENT FROM A SMALL POND AT THE FOOT OF THE DAM AND SOUTHEAST OF THE DIRT ROAD. THIS SITE IS LOCATED WITHIN THE TUZIGOOT NATIONAL MONUMENT (TUZI) BOUNDARY. THE DATA ARE FROM AN EXPANDED SITE INSPECTION REPORT FOR THE PHELPS DODGE VERDE MINE AREA BY ECOLOGY AND ENVIRONMENT, INC. UNDER CONTRACT BY THE EPA. THE STUDY WAS CONDUCTED TO DETERMINE IF METALS ARE BEING RELEASED INTO THE ENVIRONMENT FROM A 116 ACRE TAILINGS PILE WHICH IS ADJACENT TO THE VERDE RIVER AND "CONTAINS APPROXIMATELY 4 MILLION TONS OF MINING WASTES." NPS STAFF ASSIGNED "J" STORET REMARK CODES TO SOME VALUES THAT WERE ESTIMATED FROM ANALYTICAL MEASUREMENTS. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT TUZI; PO BOX 219; CAMP VERDE AZ 86332 (520-634-5564). DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NPS WATER RESOURCES DIVISION;

1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (970-225-3516).

Parameter Inventory for Station: TUZI0050

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00917 CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/04/93-08/04/93	1	51400.	51400.	51400.	51400.	0.	0.	**	**	**	**
00924 MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/04/93-08/04/93	1	13500.	13500.	13500.	13500.	0.	0.	**	**	**	**
00938 POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/04/93-08/04/93	1	5260.	5260.	5260.	5260.	0.	0.	**	**	**	**
01003 ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/04/93-08/04/93	1	91.8	91.8	91.8	91.8	0.	0.	**	**	**	**
01008 BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/04/93-08/04/93	1	231.	231.	231.	231.	0.	0.	**	**	**	**
01028 CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	1	5.7	5.7	5.7	5.7	0.	0.	**	**	**	**
01029 CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	1	47.5	47.5	47.5	47.5	0.	0.	**	**	**	**
01043 COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/04/93-08/04/93	1	391.	391.	391.	391.	0.	0.	**	**	**	**
01052 LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/04/93-08/04/93	1	127.	127.	127.	127.	0.	0.	**	**	**	**
01053 MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/04/93-08/04/93	1	434.	434.	434.	434.	0.	0.	**	**	**	**
01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	1	51.5	51.5	51.5	51.5	0.	0.	**	**	**	**
01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/04/93-08/04/93	1 ##	0.48	0.48	0.48	0.48	0.	0.	**	**	**	**
01088 VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/04/93-08/04/93	1	52.5	52.5	52.5	52.5	0.	0.	**	**	**	**
01093 ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/04/93-08/04/93	1	256.	256.	256.	256.	0.	0.	**	**	**	**
01108 ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/04/93-08/04/93	1	28100.	28100.	28100.	28100.	0.	0.	**	**	**	**
01170 IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/04/93-08/04/93	1	29900.	29900.	29900.	29900.	0.	0.	**	**	**	**
04133 MERCURY, BED MAT,DRY WT,SEDIMENT.	08/04/93-08/04/93	1	0.76	0.76	0.76	0.76	0.	0.	**	**	**	**
81373 SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	08/04/93-08/04/93	2	49.2	49.2	51.6	46.8	11.52	3.394	**	**	**	**
81951 TOTAL ORGANIC CARBON(TOC)SEDIMENT DRY WEIGHT MG/KG	08/04/93-08/04/93	1	22800.	22800.	22800.	22800.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: TUZI0051

NPS Station ID: TUZI0051
 Location: BITTER CK ABV BRIDGE IN CLARKDALE
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 15060202
 Major Basin: COLORADO RIVER
 Minor Basin: GILA/SALT/VERDE
 RF1 Index: 15060202025
 RF3 Index: 1506020200600.00
 Description:

LAT/LON: 34.773059/-112.057504

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.00

Agency: 21ARIZ
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): 702600000000095/VR-BTC-1 /A16-3-19CDC
 Within Park Boundary: No

Date Created: 08/05/89

Aquifer:
 Water Body Id: AZ15060202-025
 ECO Region:
 Distance from RF1: 4.20
 Distance from RF3: 0.04

On/Off RF1: OFF
 On/Off RF3:

SITE IS LOCATED 0.25 MI. UPSTREAM OF CONFLUENCE WITH VERDE RIVER IN
 UPSTREAM OF VERDE CONFLUENCE, ADEQ STA.#702600000000006. OLD SITE
 ELEVATION 3420 FEET MSL. REFERENCE FILE SWMS-175.100.120.

CLARKDALE. SITE WAS PREVIOUSLY LOCATED DOWNSTREAM AT APPROX. 200 FT.
 PROVED TO BE INTERMITTENT. T16N R03E SEC.20 CDC.

Parameter Inventory for Station: TUZI0051

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004 STREAM WIDTH (FEET)	11/15/88-01/07/93	29	3.	3.586	7.	2.	2.108	1.452	2.	2.	4.	6.
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/15/88-01/07/93	31	19.	18.029	32.	6.	51.036	7.144	6.8	12.	23.5	27.8
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	11/15/88-01/07/93	30	22.	22.103	38.	4.6	102.3	10.114	5.4	14.	31.25	36.
00055 VELOCITY, STREAM FT/SEC	11/15/88-01/07/93	28	0.4	0.461	1.5	0.1	0.122	0.35	0.1	0.2	0.675	1.02
00059 FLOW, RATE, INSTANTANEOUS GALLONS/MIN	07/21/92-07/21/92	1	107.72	107.72	107.72	107.72	0.	0.	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS CFS	01/17/89-01/07/93	8	1.	1.125	2.	1.	0.125	0.354	**	**	**	**
00064 DEPTH OF STREAM, MEAN (FT)	11/15/88-01/07/93	29	0.3	0.348	0.6	0.1	0.02	0.14	0.2	0.2	0.45	0.6
00065 STAGE, STREAM (FEET)	03/11/92-01/07/93	6	2.5	2.5	3.	2.	0.3	0.548	**	**	**	**
00094 SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	11/15/88-01/07/93	31	853.	963.161	1537.	643.	52045.006	228.134	696.6	810.	1113.	1314.8
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/15/88-01/07/93	31	919.	945.71	1429.	742.	30601.08	174.932	760.	803.	1050.	1218.
00300 OXYGEN, DISSOLVED MG/L	11/15/88-01/07/93	29	8.4	8.703	15.5	6.2	5.109	2.26	6.4	7.3	9.	12.5
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION %	11/15/88-01/07/93	29	96.6	98.645	148.9	73.	245.62	15.672	83.9	90.4	102.4	113.9
00403 PH, LAB, STANDARD UNITS SU	11/15/88-01/07/93	31	8.3	8.326	8.5	7.9	0.017	0.132	8.12	8.3	8.4	8.5
00403 CONVERTED PH, LAB, STANDARD UNITS	11/15/88-01/07/93	31	8.3	8.304	8.5	7.9	0.018	0.133	8.12	8.3	8.4	8.5
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/15/88-01/07/93	31	0.005	0.005	0.013	0.003	0.	0.002	0.003	0.004	0.005	0.008
00406 PH, FIELD, STANDARD UNITS SU	11/15/88-01/07/93	29	8.4	8.414	8.79	7.9	0.04	0.2	8.13	8.33	8.535	8.7
00406 CONVERTED PH, FIELD, STANDARD UNITS	11/15/88-01/07/93	29	8.4	8.368	8.79	7.9	0.042	0.205	8.13	8.33	8.535	8.7
00406 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/15/88-01/07/93	29	0.004	0.004	0.013	0.002	0.	0.002	0.002	0.003	0.005	0.007
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	11/15/88-01/07/93	30	230.5	227.167	296.	165.	711.454	26.673	196.1	212.75	248.25	252.8
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)	11/15/88-01/07/93	30	2.5	2.95	9.	0.5	5.489	2.343	1.	1.	4.	6.9
00440 BICARBONATE ION (MG/L AS HCO3)	11/15/88-11/05/92	30	263.	263.167	309.	190.	1037.868	32.216	201.	243.75	293.5	297.9
00445 CARBONATE ION (MG/L AS CO3)	11/15/88-11/05/92	29	3.	4.293	24.	0.5	23.974	4.896	0.5	1.	5.	9.
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/15/88-01/07/93	31	4.	6.177	42.	0.5	65.942	8.12	2.	2.	7.	13.6
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/15/88-01/07/93	27 ##	0.05	0.055	0.2	0.025	0.001	0.033	0.025	0.05	0.05	0.064
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	11/15/88-01/07/93	30	0.195	0.211	0.57	0.025	0.02	0.141	0.05	0.088	0.305	0.397
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	11/15/88-11/05/92	30	0.7	0.652	1.23	0.05	0.121	0.348	0.24	0.308	0.913	1.158
00665 PHOSPHORUS, TOTAL (MG/L AS P)	11/15/88-01/07/93	29 ##	0.05	0.062	0.25	0.025	0.003	0.057	0.025	0.025	0.06	0.17
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	11/15/88-01/07/93	31	436.	461.355	773.	344.	11051.303	105.125	353.8	369.	530.	619.2
00916 CALCIUM, TOTAL (MG/L AS Ca)	11/15/88-01/07/93	31	94.8	97.394	169.	58.4	615.949	24.818	69.9	78.2	115.	129.8
00927 MAGNESIUM, TOTAL (MG/L AS MG)	11/15/88-01/07/93	31	49.7	52.99	93.7	39.9	157.557	12.552	41.16	44.1	56.9	74.92
00929 SODIUM, TOTAL (MG/L AS NA)	11/15/88-01/07/93	31	42.3	41.674	52.5	31.9	24.447	4.944	34.28	37.3	43.6	48.28

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0051

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00937 POTASSIUM, TOTAL (MG/L AS K)	11/15/88-01/07/93	31	2.5	2.721	5.	1.75	0.399	0.632	2.052	2.3	3.11	3.41
00940 CHLORIDE, TOTAL IN WATER (MG/L)	11/15/88-01/07/93	30	42.5	46.467	100.	32.	148.051	12.168	39.1	41.	48.	58.5
00945 SULFATE, TOTAL (MG/L AS SO4)	11/15/88-01/07/93	28	234.	259.821	606.	17.	15025.189	122.577	155.3	180.25	317.5	446.7
00951 FLUORIDE, TOTAL (MG/L AS F)	11/15/88-01/07/93	30	0.35	0.345	0.4	0.27	0.001	0.038	0.272	0.328	0.37	0.39
01000 ARSENIC, DISSOLVED (UG/L AS AS)	11/15/88-01/07/93	12 ##	5.	5.083	6.	5.	0.083	0.289	5.	5.	5.	5.7
01002 ARSENIC, TOTAL (UG/L AS AS)	11/15/88-01/07/93	31 ##	5.	5.355	12.	5.	1.837	1.355	5.	5.	5.	5.8
01005 BARIUM, DISSOLVED (UG/L AS BA)	11/15/88-01/07/93	12 ##	50.	47.5	50.	30.	38.636	6.216	33.	50.	50.	50.
01007 BARIUM, TOTAL (UG/L AS BA)	11/15/88-01/07/93	31 ##	50.	55.032	250.	30.	1330.366	36.474	42.	50.	50.	50.
01010 BERYLLIUM, DISSOLVED (UG/L AS BE)	11/15/88-01/07/93	12 ##	0.25	0.625	2.5	0.25	0.767	0.876	0.25	0.25	0.25	2.5
01012 BERYLLIUM, TOTAL (UG/L AS BE)	11/15/88-01/07/93	31 ##	0.25	2.	50.	0.25	79.675	8.926	0.25	0.25	0.25	2.05
01020 BORON, DISSOLVED (UG/L AS B)	11/15/88-01/07/93	12	135.	116.25	180.	25.	2486.932	49.869	32.5	62.5	147.5	177.
01022 BORON, TOTAL (UG/L AS B)	11/15/88-01/07/93	31	160.	162.581	520.	50.	7839.785	88.543	50.	120.	200.	226.
01025 CADMIUM, DISSOLVED (UG/L AS CD)	11/15/88-01/07/93	12 ##	0.5	1.083	5.	0.5	1.856	1.362	0.5	0.5	0.875	4.25
01027 CADMIUM, TOTAL (UG/L AS CD)	11/15/88-01/07/93	31 ##	0.5	1.387	12.5	0.5	5.312	2.305	0.5	0.5	1.	2.9
01030 CHROMIUM, DISSOLVED (UG/L AS CR)	11/15/88-01/07/93	12 ##	5.	5.833	10.	5.	3.788	1.946	5.	5.	5.	10.
01034 CHROMIUM, TOTAL (UG/L AS CR)	11/15/88-01/07/93	31 ##	5.	6.258	25.	5.	16.065	4.008	5.	5.	5.	10.
01040 COPPER, DISSOLVED (UG/L AS CU)	11/15/88-01/07/93	11 ##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
01042 COPPER, TOTAL (UG/L AS CU)	11/15/88-01/07/93	31 ##	5.	193.194	5390.	5.	933996.828	966.435	5.	5.	13.	43.8
01045 IRON, TOTAL (UG/L AS FE)	11/15/88-01/07/93	31 ##	50.	464.226	7440.	22.	2123964.514	1457.383	50.	50.	190.	418.
01046 IRON, DISSOLVED (UG/L AS FE)	11/15/88-01/07/93	12 ##	50.	58.333	140.	5.	1483.333	38.514	11.	50.	50.	137.
01049 LEAD, DISSOLVED (UG/L AS PB)	11/15/88-01/07/93	12 ##	5.	26.75	250.	1.	4978.568	70.559	2.2	5.	5.	182.5
01051 LEAD, TOTAL (UG/L AS PB)	11/15/88-01/07/93	31 ##	5.	13.565	260.	1.	2106.079	45.892	3.	5.	5.	5.
01055 MANGANESE, TOTAL (UG/L AS MN)	11/15/88-01/07/93	31 ##	25.	23.065	25.	5.	31.129	5.579	12.	25.	25.	25.
01056 MANGANESE, DISSOLVED (UG/L AS MN)	11/15/88-01/07/93	12 ##	25.	21.667	25.	5.	60.606	7.785	5.	25.	25.	25.
01057 THALLIUM, DISSOLVED (UG/L AS TL)	11/15/88-01/07/93	12 ##	2.5	2.5	2.5	2.5	0.	0.	2.5	2.5	2.5	2.5
01059 THALLIUM, TOTAL (UG/L AS TL)	11/15/88-01/07/93	30 ##	2.5	4.083	50.	2.5	75.208	8.672	2.5	2.5	2.5	2.5
01065 NICKEL, DISSOLVED (UG/L AS NI)	11/15/88-01/07/93	12 ##	50.	47.5	170.	10.	1729.545	41.588	11.5	25.	50.	134.
01067 NICKEL, TOTAL (UG/L AS NI)	11/15/88-01/07/93	31 ##	25.	40.968	210.	10.	1187.366	34.458	17.	25.	50.	50.
01075 SILVER, DISSOLVED (UG/L AS AG)	11/15/88-01/07/93	12 ##	0.5	1.458	5.	0.5	3.248	1.802	0.5	0.5	2.375	5.
01077 SILVER, TOTAL (UG/L AS AG)	11/15/88-01/07/93	31 ##	0.5	1.081	5.	0.5	2.352	1.533	0.5	0.5	0.5	5.
01080 STRONTIUM, DISSOLVED (UG/L AS SR)	09/15/92-01/07/93	2	895.	895.	900.	890.	50.	7.071	**	**	**	**
01082 STRONTIUM, TOTAL (UG/L AS SR)	03/11/92-01/07/93	5	920.	734.	1000.	50.	161280.	401.597	**	**	**	**
01090 ZINC, DISSOLVED (UG/L AS ZN)	11/15/88-01/07/93	12	70.	282.917	2350.	5.	432120.265	657.359	11.	25.	187.5	1738.
01092 ZINC, TOTAL (UG/L AS ZN)	11/15/88-01/07/93	31	60.	185.097	2970.	5.	280094.957	529.24	25.	25.	130.	306.
01095 ANTIMONY, DISSOLVED (UG/L AS SB)	11/15/88-01/07/93	12 ##	2.5	3.333	5.	2.5	1.515	1.231	2.5	2.5	5.	5.
01097 ANTIMONY, TOTAL (UG/L AS SB)	11/15/88-01/07/93	31 ##	2.5	6.935	100.	2.5	314.879	17.745	2.5	2.5	5.	5.
01145 SELENIUM, DISSOLVED (UG/L AS SE)	11/15/88-01/07/93	12 ##	2.5	4.875	17.	2.5	17.778	4.216	2.5	2.5	6.5	14.
01147 SELENIUM, TOTAL (UG/L AS SE)	11/15/88-01/07/93	31 ##	2.5	4.726	28.	2.5	28.964	5.382	2.5	2.5	5.	7.8
31613 FECAL COLIFORM, MEMBR FILTER, M-FC AGAR, 44.5C, 24HR	06/13/89-11/05/92	7	27.	45.571	120.	1.	2518.286	50.183	**	**	**	**
31613 LOG FECAL COLIFORM, MEMBR FILTER, M-FC AGAR, 44.5C, 24	06/13/89-11/05/92	7	1.431	1.132	2.079	0.	0.842	0.918	**	**	**	**
31613 GM FECAL COLIFORM, MEMBR FILTER, M-FC AGAR, 44.5C, 24H	GEOMETRIC MEAN =			13.567								
31673 FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	06/13/89-07/21/92	6	386.5	430.667	801.	60.	98259.067	313.463	**	**	**	**
31673 LOG FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	06/13/89-07/21/92	6	2.587	2.49	2.904	1.778	0.192	0.439	**	**	**	**
31673 GM FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	GEOMETRIC MEAN =			308.976								
70300 RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L	11/15/88-01/07/93	31	640.	682.065	1230.	490.	26779.862	163.646	521.8	544.	800.	875.8
71830 HYDROXIDE ION (MG/L AS OH)	11/19/90-11/19/90	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
71890 MERCURY, DISSOLVED (UG/L AS HG)	11/15/88-01/07/93	12 ##	0.25	0.738	5.9	0.1	2.658	1.63	0.1	0.25	0.438	4.28
71900 MERCURY, TOTAL (UG/L AS HG)	11/15/88-01/07/93	31 ##	0.25	0.273	0.9	0.1	0.02	0.141	0.13	0.25	0.25	0.45
82078 TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS, NTU	11/19/91-01/07/93	6	3.25	3.267	6.	1.	5.287	2.299	**	**	**	**
82079 TURBIDITY, LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	11/15/88-01/07/93	31	0.6	2.371	24.	0.1	27.562	5.25	0.2	0.3	1.5	7.42

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0051

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300 OXYGEN, DISSOLVED	Other-Lo Lim.	4.	29	0	0.00	10	0	0.00	6	0	0.00	5	0	0.00	8	0	0.00
00403 PH, LAB	Fresh Chronic	9.	31	0	0.00	11	0	0.00	6	0	0.00	5	0	0.00	9	0	0.00
	Other-Lo Lim.	6.5	31	0	0.00	11	0	0.00	6	0	0.00	5	0	0.00	9	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: TUZI0051

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00406	PH, FIELD																
	Fresh Chronic	9.	29	0	0.00	9	0	0.00	6	0	0.00	5	0	0.00	9	0	0.00
	Other-Lo Lim.	6.5	29	0	0.00	9	0	0.00	6	0	0.00	5	0	0.00	9	0	0.00
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.																
	Drinking Water	10.	30	0	0.00	10	0	0.00	6	0	0.00	5	0	0.00	9	0	0.00
00940	Fresh Acute	860.	30	0	0.00	10	0	0.00	6	0	0.00	5	0	0.00	9	0	0.00
	Drinking Water	250.	30	0	0.00	10	0	0.00	6	0	0.00	5	0	0.00	9	0	0.00
00945	SULFATE, TOTAL (AS SO4)																
	Drinking Water	250.	28	12	0.43	11	3	0.27	6	3	0.50	4	2	0.50	7	4	0.57
00951	FLUORIDE, TOTAL AS F																
	Drinking Water	4.	30	0	0.00	11	0	0.00	6	0	0.00	5	0	0.00	8	0	0.00
01000	ARSENIC, DISSOLVED																
	Fresh Acute	360.	12	0	0.00	5	0	0.00	1	0	0.00	1	0	0.00	5	0	0.00
	Drinking Water	50.	12	0	0.00	5	0	0.00	1	0	0.00	1	0	0.00	5	0	0.00
01002	ARSENIC, TOTAL																
	Fresh Acute	360.	31	0	0.00	11	0	0.00	6	0	0.00	5	0	0.00	9	0	0.00
	Drinking Water	50.	31	0	0.00	11	0	0.00	6	0	0.00	5	0	0.00	9	0	0.00
01005	BARIUM, DISSOLVED																
	Drinking Water	2000.	12	0	0.00	5	0	0.00	1	0	0.00	1	0	0.00	5	0	0.00
01007	BARIUM, TOTAL																
	Drinking Water	2000.	31	0	0.00	11	0	0.00	6	0	0.00	5	0	0.00	9	0	0.00
01010	BERYLLIUM, DISSOLVED																
	Fresh Acute	130.	12	0	0.00	5	0	0.00	1	0	0.00	1	0	0.00	5	0	0.00
	Drinking Water	4.	12	0	0.00	5	0	0.00	1	0	0.00	1	0	0.00	5	0	0.00
01012	BERYLLIUM, TOTAL																
	Fresh Acute	130.	31	0	0.00	11	0	0.00	6	0	0.00	5	0	0.00	9	0	0.00
	Drinking Water	4.	30 &	0	0.00	10	0	0.00	6	0	0.00	5	0	0.00	9	0	0.00
01025	CADMIUM, DISSOLVED																
	Fresh Acute	3.9	11 &	0	0.00	4	0	0.00	1	0	0.00	1	0	0.00	5	0	0.00
	Drinking Water	5.	11 &	0	0.00	4	0	0.00	1	0	0.00	1	0	0.00	5	0	0.00
01027	CADMIUM, TOTAL																
	Fresh Acute	3.9	29 &	0	0.00	10	0	0.00	6	0	0.00	4	0	0.00	9	0	0.00
	Drinking Water	5.	29 &	0	0.00	10	0	0.00	6	0	0.00	4	0	0.00	9	0	0.00
01030	CHROMIUM, DISSOLVED																
	Drinking Water	100.	12	0	0.00	5	0	0.00	1	0	0.00	1	0	0.00	5	0	0.00
01034	CHROMIUM, TOTAL																
	Drinking Water	100.	31	0	0.00	11	0	0.00	6	0	0.00	5	0	0.00	9	0	0.00
01040	COPPER, DISSOLVED																
	Fresh Acute	18.	11	0	0.00	5	0	0.00	1	0	0.00	1	0	0.00	4	0	0.00
	Drinking Water	1300.	11	0	0.00	5	0	0.00	1	0	0.00	1	0	0.00	4	0	0.00
01042	COPPER, TOTAL																
	Fresh Acute	18.	30 &	3	0.10	11	1	0.09	6	2	0.33	5	0	0.00	8	0	0.00
	Drinking Water	1300.	31	1	0.03	11	1	0.09	6	0	0.00	5	0	0.00	9	0	0.00
01049	LEAD, DISSOLVED																
	Fresh Acute	82.	12	1	0.08	5	0	0.00	1	0	0.00	1	0	0.00	5	1	0.20
	Drinking Water	15.	11 &	1	0.09	4	0	0.00	1	0	0.00	1	0	0.00	5	1	0.20
01051	LEAD, TOTAL																
	Fresh Acute	82.	31	1	0.03	11	1	0.09	6	0	0.00	5	0	0.00	9	0	0.00
	Drinking Water	15.	30 &	1	0.03	10	1	0.10	6	0	0.00	5	0	0.00	9	0	0.00
01057	THALLIUM, DISSOLVED																
	Fresh Acute	1400.	12	0	0.00	5	0	0.00	1	0	0.00	1	0	0.00	5	0	0.00
	Drinking Water	2.	0 &	0	0.00												
01059	THALLIUM, TOTAL																
	Fresh Acute	1400.	30	0	0.00	11	0	0.00	6	0	0.00	5	0	0.00	8	0	0.00
	Drinking Water	2.	0 &	0	0.00												
01065	NICKEL, DISSOLVED																
	Fresh Acute	1400.	12	0	0.00	5	0	0.00	1	0	0.00	1	0	0.00	5	0	0.00
	Drinking Water	100.	12	1	0.08	5	0	0.00	1	0	0.00	1	0	0.00	5	1	0.20
01067	NICKEL, TOTAL																
	Fresh Acute	1400.	31	0	0.00	11	0	0.00	6	0	0.00	5	0	0.00	9	0	0.00
	Drinking Water	100.	31	1	0.03	11	1	0.09	6	0	0.00	5	0	0.00	9	0	0.00
01075	SILVER, DISSOLVED																
	Fresh Acute	4.1	10 &	0	0.00	4	0	0.00	1	0	0.00	1	0	0.00	4	0	0.00
	Drinking Water	100.	12	0	0.00	5	0	0.00	1	0	0.00	1	0	0.00	5	0	0.00
01077	SILVER, TOTAL																
	Fresh Acute	4.1	27 &	0	0.00	8	0	0.00	6	0	0.00	5	0	0.00	8	0	0.00
	Drinking Water	100.	31	0	0.00	11	0	0.00	6	0	0.00	5	0	0.00	9	0	0.00
01090	ZINC, DISSOLVED																
	Fresh Acute	120.	12	5	0.42	5	3	0.60	1	0	0.00	1	1	1.00	5	1	0.20
	Drinking Water	5000.	12	0	0.00	5	0	0.00	1	0	0.00	1	0	0.00	5	0	0.00
01092	ZINC, TOTAL																
	Fresh Acute	120.	31	8	0.26	11	5	0.45	6	1	0.17	5	1	0.20	9	1	0.11
	Drinking Water	5000.	31	0	0.00	11	0	0.00	6	0	0.00	5	0	0.00	9	0	0.00
01095	ANTIMONY, DISSOLVED																
	Fresh Acute	88.	12	0	0.00	5	0	0.00	1	0	0.00	1	0	0.00	5	0	0.00
	Drinking Water	6.	12	0	0.00	5	0	0.00	1	0	0.00	1	0	0.00	5	0	0.00
01097	ANTIMONY, TOTAL																
	Fresh Acute	88.	30 &	0	0.00	10	0	0.00	6	0	0.00	5	0	0.00	9	0	0.00
	Drinking Water	6.	29 &	0	0.00	9	0	0.00	6	0	0.00	5	0	0.00	9	0	0.00
01145	SELENIUM, DISSOLVED																
	Fresh Acute	20.	12	0	0.00	5	0	0.00	1	0	0.00	1	0	0.00	5	0	0.00
	Drinking Water	50.	12	0	0.00	5	0	0.00	1	0	0.00	1	0	0.00	5	0	0.00
01147	SELENIUM, TOTAL																
	Fresh Acute	20.	31	1	0.03	11	0	0.00	6	1	0.17	5	0	0.00	9	0	0.00
	Drinking Water	50.	31	0	0.00	11	0	0.00	6	0	0.00	5	0	0.00	9	0	0.00
31613	FECAL COLIFORM, MEMBRANE FILTER, AGAR																
	Other-Hi Lim.	200.	7	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00	2	0	0.00
71890	MERCURY, DISSOLVED																
	Fresh Acute	2.4	12	1	0.08	5	0	0.00	1	0	0.00	1	0	0.00	5	1	0.20
	Drinking Water	2.	12	1	0.08	5	0	0.00	1	0	0.00	1	0	0.00	5	1	0.20

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: TUZI0051

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
71900	MERCURY, TOTAL																
	Fresh Acute	2.4	31	0	0.00	11	0	0.00	6	0	0.00	5	0	0.00	9	0	0.00
	Drinking Water	2.	31	0	0.00	11	0	0.00	6	0	0.00	5	0	0.00	9	0	0.00
82078	TURBIDITY, FIELD																
	Other-Hi Lim.	50.	6	0	0.00	3	0	0.00				1	0	0.00	2	0	0.00
82079	TURBIDITY, LAB																
	Other-Hi Lim.	50.	31	0	0.00	11	0	0.00	6	0	0.00	5	0	0.00	9	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0052

NPS Station ID: TUZI0052 LAT/LON: 34.773865/-112.039393

Location: PECKS LAKE 250 FEET NORTHWEST OF DIRT ROAD

Station Type: /RESERV/TYPA/AMBNT/MINE

RMI-Indexes:

RMI-Miles:

HUC: 15060202

Major Basin: COLORADO RIVER

Minor Basin: GILA RIVER

RF1 Index: 15060202

RF3 Index: 15060202002505.59

Description:

THE STATION IS LOCATED ON THE CLARKDALE AZ-YAVAPAI COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SAMPLING WAS DONE ON SEDIMENT FROM PECKS LAKE; 250 FEET NORTHWEST OF THE DIRT ROAD AT THE FOOT OF THE TAILINGS DAM. THIS SITE IS LOCATED OUTSIDE OF THE TUZIGOOT NATIONAL MONUMENT (TUZI) BOUNDARY. THE DATA ARE FROM AN EXPANDED SITE INSPECTION REPORT FOR THE PHELPS DODGE VERDE MINE AREA BY ECOLOGY AND ENVIRONMENT; INC. UNDER CONTRACT BY THE EPA. THE STUDY WAS CONDUCTED TO DETERMINE IF METALS ARE BEING RELEASED INTO THE ENVIRONMENT FROM A 116 ACRE TAILINGS PILE WHICH IS ADJACENT TO THE VERDE RIVER AND "CONTAINS APPROXIMATELY 4 MILLION TONS OF MINING WASTES." NPS STAFF ASSIGNED "J" STORET REMARK CODES TO SOME VALUES THAT WERE ESTIMATED FROM ANALYTICAL MEASUREMENTS. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT TUZI; PO BOX 219; CAMP VERDE AZ 86332 (520-634-5564). DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NPS WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (970-225-3516).

Agency: 11NPSWRD

FIPS State/County: 04025 ARIZONA/YAVAPAI

STORET Station ID(s): TUZI_EPA_07

Within Park Boundary: No

Date Created: 09/26/98

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 6.29

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.01

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: TUZI0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/04/93-08/04/93	2	52600.	52600.	53100.	52100.	500000.	707.107	**	**	**	**
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/04/93-08/04/93	2	12650.	12650.	12900.	12400.	125000.	353.553	**	**	**	**
00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/04/93-08/04/93	2	1865.	1865.	1980.	1750.	26450.	162.635	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/04/93-08/04/93	2	79.7	79.7	85.5	73.9	67.28	8.202	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/04/93-08/04/93	2	158.5	158.5	160.	157.	4.5	2.121	**	**	**	**
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	2	4.	4.	4.1	3.9	0.02	0.141	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	2	22.7	22.7	23.8	21.6	2.42	1.556	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/04/93-08/04/93	2	296.5	296.5	317.	276.	840.5	28.991	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/04/93-08/04/93	2	78.15	78.15	79.	77.3	1.445	1.202	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/04/93-08/04/93	2	309.5	309.5	313.	306.	24.5	4.95	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	2	22.95	22.95	24.3	21.6	3.645	1.909	**	**	**	**
01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/04/93-08/04/93	2	27.55	27.55	28.9	26.2	3.645	1.909	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/04/93-08/04/93	2	539.5	539.5	578.	501.	2964.5	54.447	**	**	**	**
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/04/93-08/04/93	2	11500.	11500.	11800.	11200.	180000.	424.264	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/04/93-08/04/93	2	21950.	21950.	22200.	21700.	125000.	353.553	**	**	**	**
04133	MERCURY, BED MAT,DRY WT,SEDIMENT,	08/04/93-08/04/93	2	0.32	0.32	0.41	0.23	0.016	0.127	**	**	**	**
81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	08/04/93-08/04/93	4	70.15	70.025	73.6	66.2	10.362	3.219	**	**	**	**
81951	TOTAL ORGANIC CARBON(TOC)SEDIMENT DRY WEIGHT MG/KG	08/04/93-08/04/93	2	16150.	16150.	19100.	13200.	17405000.	4171.93	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: TUZI0053

NPS Station ID: TUZI0053 LAT/LON: 34.774142/-112.090171

Location: DOWNSTREAM FROM 300-LEVEL DUMP OF U.V. MINE

Station Type: /TYPA/AMBNT/STREAM/SOLIDS/MINE

RMI-Indexes:

RMI-Miles:

HUC: 15060202

Major Basin: COLORADO RIVER

Minor Basin: GILA RIVER

RF1 Index: 15060202

RF3 Index: 15060202002505.59

Description:

THE STATION IS LOCATED ON THE CLARKDALE AZ-YAVAPAI COUNTY 7.5 MINUTE SERIES (TOPO.) QUADRANGLE. THE SEDIMENT SAMPLING SITE IS AT THE SETTLING PONDS THAT CAPTURE EFFLUENT FROM THE 300-LEVEL DUMP OF THE INACTIVE UNITED VERDE MINE. THE SITE IS OUTSIDE OF THE TUZIGOOT NATIONAL MONUMENT BOUNDARY. THE DATA ARE FROM A SITE SCREENING INVESTIGATION REPORT FOR THE PHELPS DODGE VERDE MINE AREA BY ECOLOGY AND ENVIRONMENT; INC. UNDER CONTRACT BY THE EPA. THE STUDY WAS CONDUCTED TO DETERMINE IF METALS ARE BEING RELEASED INTO THE ENVIRONMENT FROM A 116 ACRE TAILINGS PILE WHICH IS ADJACENT TO THE VERDE RIVER AND "CONTAINS APPROXIMATELY 4 MILLION TONS OF MINING WASTES." NPS STAFF ASSIGNED "J" STORET REMARK CODES TO VALUES THAT WERE ESTIMATED FROM ANALYTICAL MEASUREMENTS. FOR MORE INFORMATION CONTACT TUZIGOOT NATIONAL MONUMENT AT P.O. BOX 219; CAMP VERDE AZ 86332 (520-634-5564). DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NPS WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (970-225-3516).

Agency: 11NPSWRD

FIPS State/County: 04025 ARIZONA/YAVAPAI

STORET Station ID(s): TUZI_EPA_EE21

Within Park Boundary: No

Date Created: 11/28/98

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 6.29

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.01

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: TUZI0053

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00917 CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	07/01/92-07/01/92	1	105000.	105000.	105000.	105000.	0.	0.	**	**	**	**
00924 MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	07/01/92-07/01/92	1	14000.	14000.	14000.	14000.	0.	0.	**	**	**	**
00938 POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	07/01/92-07/01/92	1	1620.	1620.	1620.	1620.	0.	0.	**	**	**	**
01003 ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	07/01/92-07/01/92	1	8.6	8.6	8.6	8.6	0.	0.	**	**	**	**
01008 BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	07/01/92-07/01/92	1	194.	194.	194.	194.	0.	0.	**	**	**	**
01013 BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	07/01/92-07/01/92	1	1.2	1.2	1.2	1.2	0.	0.	**	**	**	**
01028 CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	07/01/92-07/01/92	1	23.9	23.9	23.9	23.9	0.	0.	**	**	**	**
01029 CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	07/01/92-07/01/92	1	28.2	28.2	28.2	28.2	0.	0.	**	**	**	**
01038 COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	07/01/92-07/01/92	1	24.	24.	24.	24.	0.	0.	**	**	**	**
01043 COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	07/01/92-07/01/92	1	1560.	1560.	1560.	1560.	0.	0.	**	**	**	**
01052 LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	07/01/92-07/01/92	1	16.4	16.4	16.4	16.4	0.	0.	**	**	**	**
01053 MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	07/01/92-07/01/92	1	604.	604.	604.	604.	0.	0.	**	**	**	**
01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	07/01/92-07/01/92	1	45.8	45.8	45.8	45.8	0.	0.	**	**	**	**
01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	07/01/92-07/01/92	1 ##	0.345	0.345	0.345	0.345	0.	0.	**	**	**	**
01088 VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	07/01/92-07/01/92	1	37.8	37.8	37.8	37.8	0.	0.	**	**	**	**
01093 ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	07/01/92-07/01/92	1	4690.	4690.	4690.	4690.	0.	0.	**	**	**	**
01098 ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	07/01/92-07/01/92	1 ##	4.4	4.4	4.4	4.4	0.	0.	**	**	**	**
01108 ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	07/01/92-07/01/92	1	16100.	16100.	16100.	16100.	0.	0.	**	**	**	**
01148 SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	07/01/92-07/01/92	1 ##	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0053

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01170 IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	07/01/92-07/01/92	1	30100.	30100.	30100.	30100.	0.	0.	**	**	**	**
04133 MERCURY, BED MAT, DRY WT, SEDIMENT,	07/01/92-07/01/92	1	##	0.06	0.06	0.06	0.	0.	**	**	**	**
81373 SOLIDS IN SEDIMENT SAMPLE PERCENT DRY WEIGHT (%)	07/01/92-07/01/92	1	86.6	86.6	86.6	86.6	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: TUZI0054

NPS Station ID: TUZI0054

LAT/LON: 34.774226/-112.040227

Agency: 11NPSWRD

Date Created: 09/26/98

Location: WEST SHORE OF PECKS LAKE; NW OF DIRT ROAD

FIPS State/County: 04025 ARIZONA/YAVAPAI

Station Type: /RESERV/TYPA/AMBNT/MINE

STORET Station ID(s): TUZI_EPA_08

RMI-Indexes:

Within Park Boundary: No

RMI-Miles:

HUC: 15060202

Depth of Water: 0

Major Basin: COLORADO RIVER

Elevation: 0

Minor Basin: GILA RIVER

RF1 Index: 15060202

RF1 Mile Point: 0.000

RF3 Index: 15060202002505.59

RF3 Mile Point: 6.29

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.01

On/Off RF1:

On/Off RF3:

Description:
THE STATION IS LOCATED ON THE CLARKDALE AZ-YAVAPAI COUNTY 7.5 MINUTE FROM THE WEST SHORE OF PECKS LAKE; 600 FEET NORTHWEST OF THE DIRT ROAD. THIS SITE IS LOCATED OUTSIDE OF THE TUZIGOOT NATIONAL MONUMENT (TUZI) BOUNDARY. THE DATA ARE FROM AN EXPANDED SITE INSPECTION REPORT FOR THE PHELPS DODGE VERDE MINE AREA BY ECOLOGY AND ENVIRONMENT, INC. UNDER CONTRACT BY THE EPA. THE STUDY WAS CONDUCTED TO DETERMINE IF METALS ARE BEING RELEASED INTO THE ENVIRONMENT FROM A 116 ACRE TAILINGS PILE WHICH IS ADJACENT TO THE VERDE RIVER AND "CONTAINS APPROXIMATELY 4 MILLION TONS OF MINING WASTES." NPS STAFF ASSIGNED "J" STORET REMARK CODES TO SOME VALUES THAT WERE ESTIMATED FROM ANALYTICAL MEASUREMENTS. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT TUZI; PO BOX 219; CAMP VERDE AZ 86332 (520-634-5564). DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NPS WATER RESOURCES DIVISION;

1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (970-225-3516).

Parameter Inventory for Station: TUZI0054

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th	
00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/04/93-08/04/93	1	107000.	107000.	107000.	107000.	0.	0.	**	**	**	**
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/04/93-08/04/93	1	22700.	22700.	22700.	22700.	0.	0.	**	**	**	**
00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/04/93-08/04/93	1	3040.	3040.	3040.	3040.	0.	0.	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/04/93-08/04/93	1	144.	144.	144.	144.	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/04/93-08/04/93	1	412.	412.	412.	412.	0.	0.	**	**	**	**
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	1	12.4	12.4	12.4	12.4	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	1	26.8	26.8	26.8	26.8	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/04/93-08/04/93	1	768.	768.	768.	768.	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/04/93-08/04/93	1	231.	231.	231.	231.	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/04/93-08/04/93	1	639.	639.	639.	639.	0.	0.	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	1	20.7	20.7	20.7	20.7	0.	0.	**	**	**	**
01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/04/93-08/04/93	1	42.2	42.2	42.2	42.2	0.	0.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/04/93-08/04/93	1	1010.	1010.	1010.	1010.	0.	0.	**	**	**	**
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/04/93-08/04/93	1	22700.	22700.	22700.	22700.	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/04/93-08/04/93	1	38400.	38400.	38400.	38400.	0.	0.	**	**	**	**
04133	MERCURY, BED MAT,DRY WT,SEDIMENT,	08/04/93-08/04/93	1	0.85	0.85	0.85	0.85	0.	0.	**	**	**	**
81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	08/04/93-08/04/93	2	40.7	40.7	41.9	39.5	2.88	1.697	**	**	**	**
81951	TOTAL ORGANIC CARBON(TOC)SEDIMENT DRY WEIGHT MG/KG	08/04/93-08/04/93	1	34100.	34100.	34100.	34100.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: TUZI0055

NPS Station ID: TUZI0055	LAT/LON: 34.774253/-112.039726	Agency: 11NPSWRD	Date Created: 11/28/98
Location: PECKS LAKE NEAR TAILINGS POND DAM		FIPS State/County: 04025 ARIZONA/YAVAPAI	
Station Type: /RESERV/TYPA/AMBNT/SOLIDS/MINE		STORET Station ID(s): TUZI_EPA_EE01	
RMI-Indexes:		Within Park Boundary: No	
RMI-Miles:			
HUC: 15060202	Depth of Water: 0	Aquifer:	
Major Basin: COLORADO RIVER	Elevation: 0	Water Body Id:	
Minor Basin: GILA RIVER		ECO Region:	
RF1 Index: 15060202	RF1 Mile Point: 0.000	Distance from RF1: 0.00	On/Off RF1:
RF3 Index: 15060202002505.59	RF3 Mile Point: 6.29	Distance from RF3: 0.01	On/Off RF3:
Description:			
THE STATION IS LOCATED ON THE CLARKDALE AZ-YAVAPAI COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SEDIMENT SAMPLING SITE IS AT PECKS LAKE NEAR THE TAILINGS POND DAM. THE SITE IS LOCATED OUTSIDE OF THE TUZIGOOT NATIONAL MONUMENT BOUNDARY. THE DATA ARE FROM A SITE SCREENING INVESTIGATION REPORT FOR THE PHELPS DODGE VERDE MINE AREA BY ECOLOGY AND ENVIRONMENT; INC. UNDER CONTRACT BY THE EPA. THE STUDY WAS CONDUCTED TO DETERMINE IF METALS ARE BEING RELEASED INTO THE ENVIRONMENT FROM A 116 ACRE TAILINGS PILE WHICH IS ADJACENT TO THE VERDE RIVER AND "CONTAINS APPROXIMATELY 4 MILLION TONS OF MINING WASTES." NPS STAFF ASSIGNED "J" STORET REMARK CODES TO VALUES THAT WERE ESTIMATED FROM ANALYTICAL MEASUREMENTS. FOR MORE INFORMATION CONTACT TUZIGOOT NATIONAL MONUMENT AT P.O. BOX 219; CAMP VERDE AZ 86332 (520-634-5564). DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION;			
1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (970-225-3516).			

Parameter Inventory for Station: TUZI0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	06/29/92-06/29/92	1	103000.	103000.	103000.	103000.	0.	0.	**	**	**	**
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	06/29/92-06/29/92	1	24400.	24400.	24400.	24400.	0.	0.	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/29/92-06/29/92	1	224.	224.	224.	224.	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/29/92-06/29/92	1	323.	323.	323.	323.	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/29/92-06/29/92	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	06/29/92-06/29/92	1	29.1	29.1	29.1	29.1	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/29/92-06/29/92	1	932.	932.	932.	932.	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/29/92-06/29/92	1	273.	273.	273.	273.	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/29/92-06/29/92	1	612.	612.	612.	612.	0.	0.	**	**	**	**
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/29/92-06/29/92	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	06/29/92-06/29/92	1	56.6	56.6	56.6	56.6	0.	0.	**	**	**	**
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/29/92-06/29/92	1	21400.	21400.	21400.	21400.	0.	0.	**	**	**	**
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/29/92-06/29/92	1	22.1	22.1	22.1	22.1	0.	0.	**	**	**	**
01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	06/29/92-06/29/92	1##	0.145	0.145	0.145	0.145	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/29/92-06/29/92	1	54900.	54900.	54900.	54900.	0.	0.	**	**	**	**
81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	06/29/92-06/29/92	1	34.8	34.8	34.8	34.8	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: TUZI0056

NPS Station ID: TUZI0056 LAT/LON: 34.774281/-112.040032
 Location: CENTER OF PECKS LAKE 600 FEET NW OF DIRT ROAD
 Station Type: /RESERV/TYPA/AMBNT/MINE
 RMI-Indexes:
 RMI-Miles:
 HUC: 15060202 Depth of Water: 0
 Major Basin: COLORADO RIVER Elevation: 0
 Minor Basin: GILA RIVER
 RF1 Index: 15060202 RF1 Mile Point: 0.000
 RF3 Index: 15060202002505.59 RF3 Mile Point: 6.29

Agency: 11NPSWRD
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): TUZI_EPA_09
 Within Park Boundary: No

Date Created: 09/26/98

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.01

On/Off RF1:
 On/Off RF3:

Description:
 THE STATION IS LOCATED ON THE CLARKDALE AZ-YAVAPAI COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SAMPLING WAS DONE ON SEDIMENT FROM THE CENTER OF PECKS LAKE; 600 FEET NORTHWEST OF THE DIRT ROAD. THIS SITE IS LOCATED OUTSIDE OF THE TUZIGOOT NATIONAL MONUMENT (TUZI) BOUNDARY. THE DATA ARE FROM AN EXPANDED SITE INSPECTION REPORT FOR THE PHELPS DODGE VERDE MINE AREA BY ECOLOGY AND ENVIRONMENT, INC. UNDER CONTRACT BY THE EPA. THE STUDY WAS CONDUCTED TO DETERMINE IF METALS ARE BEING RELEASED INTO THE ENVIRONMENT FROM A 116 ACRE TAILINGS PILE WHICH IS ADJACENT TO THE VERDE RIVER AND "CONTAINS APPROXIMATELY 4 MILLION TONS OF MINING WASTES." NPS STAFF ASSIGNED "J" STORET REMARK CODES TO SOME VALUES THAT WERE ESTIMATED FROM ANALYTICAL MEASUREMENTS. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT TUZI; PO BOX 219; CAMP VERDE AZ 86332 (520-634-5564). DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NPS WATER RESOURCES DIVISION;
 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (970-225-3516).

Parameter Inventory for Station: TUZI0056

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00917 CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/04/93-08/04/93	1	131000.	131000.	131000.	131000.	0.	0.	**	**	**	**
00924 MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/04/93-08/04/93	1	20500.	20500.	20500.	20500.	0.	0.	**	**	**	**
00938 POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/04/93-08/04/93	1	3180.	3180.	3180.	3180.	0.	0.	**	**	**	**
01003 ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/04/93-08/04/93	1	111.	111.	111.	111.	0.	0.	**	**	**	**
01008 BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/04/93-08/04/93	1	427.	427.	427.	427.	0.	0.	**	**	**	**
01028 CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	1	9.8	9.8	9.8	9.8	0.	0.	**	**	**	**
01029 CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	1	24.4	24.4	24.4	24.4	0.	0.	**	**	**	**
01043 COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/04/93-08/04/93	1	559.	559.	559.	559.	0.	0.	**	**	**	**
01052 LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/04/93-08/04/93	1	194.	194.	194.	194.	0.	0.	**	**	**	**
01053 MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/04/93-08/04/93	1	744.	744.	744.	744.	0.	0.	**	**	**	**
01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/04/93-08/04/93	1##	0.75	0.75	0.75	0.75	0.	0.	**	**	**	**
01088 VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/04/93-08/04/93	1	36.4	36.4	36.4	36.4	0.	0.	**	**	**	**
01093 ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/04/93-08/04/93	1	867.	867.	867.	867.	0.	0.	**	**	**	**
01108 ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/04/93-08/04/93	1	18200.	18200.	18200.	18200.	0.	0.	**	**	**	**
01170 IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/04/93-08/04/93	1	30100.	30100.	30100.	30100.	0.	0.	**	**	**	**
04133 MERCURY, BED MAT,DRY WT,SEDIMENT,	08/04/93-08/04/93	1	0.72	0.72	0.72	0.72	0.	0.	**	**	**	**
81373 SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	08/04/93-08/04/93	2	31.35	31.35	31.6	31.1	0.125	0.354	**	**	**	**
81951 TOTAL ORGANIC CARBON(TOC)SEDIMENT DRY WEIGHT MG/KG	08/04/93-08/04/93	1	31300.	31300.	31300.	31300.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: TUZI0057

NPS Station ID: TUZI0057 LAT/LON: 34.774559/-112.039866
 Location: EAST SHORE OF PECKS LAKE NW OF DIRT ROAD
 Station Type: /RESERV/TYPA/AMBNT/MINE
 RMI-Indexes:
 RMI-Miles:
 HUC: 15060202 Depth of Water: 0
 Major Basin: COLORADO RIVER Elevation: 0
 Minor Basin: GILA RIVER
 RF1 Index: 15060202 RF1 Mile Point: 0.000
 RF3 Index: 15060202002505.59 RF3 Mile Point: 6.29

Agency: 11NPSWRD
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): TUZI_EPA_10
 Within Park Boundary: No

Date Created: 09/26/98

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.01

On/Off RF1:
 On/Off RF3:

Description:
 THE STATION IS LOCATED ON THE CLARKDALE AZ-YAVAPAI COUNTY 7.5 MINUTE FROM THE EAST SHORE OF PECKS LAKE; 600 FEET NORTHWEST OF THE DIRT ROAD. BOUNDARY. THE DATA ARE FROM AN EXPANDED SITE INSPECTION REPORT FOR UNDER CONTRACT BY THE EPA. THE STUDY WAS CONDUCTED TO DETERMINE IF PILE WHICH IS ADJACENT TO THE VERDE RIVER AND "CONTAINS APPROXIMATELY 4 MILLION TONS OF MINING WASTES." NPS STAFF ASSIGNED "J" STORET REMARK CODES TO SOME VALUES THAT WERE ESTIMATED FROM ANALYTICAL MEASUREMENTS. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT TUZI; PO BOX 219; CAMP VERDE AZ 86332 (520-634-5564). DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NPS WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (970-225-3516).

Parameter Inventory for Station: TUZI0057

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00917 CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/04/93-08/04/93	1	62400.	62400.	62400.	62400.	0.	0.	**	**	**	**
00924 MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/04/93-08/04/93	1	13000.	13000.	13000.	13000.	0.	0.	**	**	**	**
00938 POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/04/93-08/04/93	1	1900.	1900.	1900.	1900.	0.	0.	**	**	**	**
01003 ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/04/93-08/04/93	1	35.2	35.2	35.2	35.2	0.	0.	**	**	**	**
01008 BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/04/93-08/04/93	1	200.	200.	200.	200.	0.	0.	**	**	**	**
01028 CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	1	4.5	4.5	4.5	4.5	0.	0.	**	**	**	**
01029 CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	1	23.7	23.7	23.7	23.7	0.	0.	**	**	**	**
01043 COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/04/93-08/04/93	1	238.	238.	238.	238.	0.	0.	**	**	**	**
01052 LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/04/93-08/04/93	1	83.6	83.6	83.6	83.6	0.	0.	**	**	**	**
01053 MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/04/93-08/04/93	1	295.	295.	295.	295.	0.	0.	**	**	**	**
01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	1	16.6	16.6	16.6	16.6	0.	0.	**	**	**	**
01088 VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/04/93-08/04/93	1	28.8	28.8	28.8	28.8	0.	0.	**	**	**	**
01093 ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/04/93-08/04/93	1	324.	324.	324.	324.	0.	0.	**	**	**	**
01108 ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/04/93-08/04/93	1	10200.	10200.	10200.	10200.	0.	0.	**	**	**	**
01170 IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/04/93-08/04/93	1	15700.	15700.	15700.	15700.	0.	0.	**	**	**	**
04133 MERCURY, BED MAT,DRY WT,SEDIMENT,	08/04/93-08/04/93	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
81373 SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	08/04/93-08/04/93	2	54.2	54.2	55.4	53.	2.88	1.697	**	**	**	**
81951 TOTAL ORGANIC CARBON(TOC)SEDIMENT DRY WEIGHT MG/KG	08/04/93-08/04/93	1	27000.	27000.	27000.	27000.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: TUZI0058

NPS Station ID: TUZI0058 LAT/LON: 34.775226/-112.041115

Location: WEST SHORE OF PECKS LAKE NW OF DIRT ROAD

Station Type: /RESERV/TYPA/AMBNT/MINE

RMI-Indexes:

RMI-Miles:

HUC: 15060202

Major Basin: COLORADO RIVER

Minor Basin: GILA RIVER

RF1 Index: 15060202

RF3 Index: 15060202002505.59

Description:

THE STATION IS LOCATED ON THE CLARKDALE AZ-YAVAPAI COUNTY 7.5 MINUTE FROM THE WEST SHORE OF PECKS LAKE; NORTHWEST OF THE DIRT ROAD. BOUNDARY. THE DATA ARE FROM AN EXPANDED SITE INSPECTION REPORT FOR UNDER CONTRACT BY THE EPA. THE STUDY WAS CONDUCTED TO DETERMINE IF PILE WHICH IS ADJACENT TO THE VERDE RIVER AND "CONTAINS APPROXIMATELY CODES TO SOME VALUES THAT WERE ESTIMATED FROM ANALYTICAL MEASUREMENTS. CAMP VERDE AZ 86332 (520-634-5564). DATA WERE PROCESSED AND UPLOADED 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (970-225-3516).

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 6.29

Agency: 11NPSWRD

FIPS State/County: 04025 ARIZONA/YAVAPAI

STORET Station ID(s): TUZI_EPA_11

Within Park Boundary: No

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.01

Date Created: 09/26/98

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: TUZI0058

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/04/93-08/04/93	1	150000.	150000.	150000.	150000.	0.	0.	**	**	**	**
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/04/93-08/04/93	1	15600.	15600.	15600.	15600.	0.	0.	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/04/93-08/04/93	1	77.5	77.5	77.5	77.5	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/04/93-08/04/93	1	473.	473.	473.	473.	0.	0.	**	**	**	**
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	1	5.7	5.7	5.7	5.7	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	1	23.1	23.1	23.1	23.1	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/04/93-08/04/93	1	436.	436.	436.	436.	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/04/93-08/04/93	1	156.	156.	156.	156.	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/04/93-08/04/93	1	761.	761.	761.	761.	0.	0.	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	1	44.4	44.4	44.4	44.4	0.	0.	**	**	**	**
01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/04/93-08/04/93	1	37.6	37.6	37.6	37.6	0.	0.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/04/93-08/04/93	1	590.	590.	590.	590.	0.	0.	**	**	**	**
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/04/93-08/04/93	1	16900.	16900.	16900.	16900.	0.	0.	**	**	**	**
01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/04/93-08/04/93	1##	0.35	0.35	0.35	0.35	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/04/93-08/04/93	1	23000.	23000.	23000.	23000.	0.	0.	**	**	**	**
04133	MERCURY, BED MAT,DRY WT,SEDIMENT,	08/04/93-08/04/93	1	0.61	0.61	0.61	0.61	0.	0.	**	**	**	**
81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	08/04/93-08/04/93	2	20.7	20.7	21.2	20.2	0.5	0.707	**	**	**	**
81951	TOTAL ORGANIC CARBON(TOC)SEDIMENT DRY WEIGHT MG/KG	08/04/93-08/04/93	1	37600.	37600.	37600.	37600.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: TUZI0059

NPS Station ID: TUZI0059
 Location: SOUTHERN AREA OF TAVASCI MARSH
 Station Type: /TYPA/AMBNT/MINE/FWTLND
 RMI-Indexes:
 RMI-Miles:
 HUC: 15060202
 Major Basin: COLORADO RIVER
 Minor Basin: GILA RIVER
 RF1 Index: 15060202
 RF3 Index: 15060202002505.59
 Description:

LAT/LON: 34.775253/-112.020727

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 6.29

Agency: 11NPSWRD
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): TUZI_EPA_22
 Within Park Boundary: Yes

Date Created: 09/26/98

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.01

On/Off RF1:
 On/Off RF3:

THE STATION IS LOCATED ON THE CLARKDALE AZ-YAVAPAI COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SAMPLES INCLUDE SURFACE WATER AND SEDIMENT FROM THE SOUTHERN AREA OF TAVASCI MARSH. THIS SITE IS LOCATED WITHIN THE TUZIGOOT NATIONAL MONUMENT (TUZI) BOUNDARY. THE DATA ARE FROM AN EXPANDED SITE INSPECTION REPORT FOR THE PHELPS DODGE VERDE MINE AREA BY ECOLOGY AND ENVIRONMENT, INC. UNDER CONTRACT BY THE EPA. THE STUDY WAS CONDUCTED TO DETERMINE IF METALS ARE BEING RELEASED INTO THE ENVIRONMENT FROM A 116 ACRE TAILINGS PILE WHICH IS ADJACENT TO THE VERDE RIVER AND "CONTAINS APPROXIMATELY 4 MILLION TONS OF MINING WASTES." NPS STAFF ASSIGNED "J" STORET REMARK CODES TO SOME VALUES THAT WERE ESTIMATED FROM ANALYTICAL MEASUREMENTS. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT TUZI, PO BOX 219, CAMP VERDE AZ 86332 (520-634-5564). DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NPS WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (970-225-3516).

Parameter Inventory for Station: TUZI0059

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/04/93-08/04/93	1	132000.	132000.	132000.	132000.	0.	0.	**	**	**	**
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/04/93-08/04/93	1	17900.	17900.	17900.	17900.	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	08/04/93-08/04/93	1	32.4	32.4	32.4	32.4	0.	0.	**	**	**	**
00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/04/93-08/04/93	1	3760.	3760.	3760.	3760.	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	08/04/93-08/04/93	1	25.	25.	25.	25.	0.	0.	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/04/93-08/04/93	1	33.9	33.9	33.9	33.9	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/04/93-08/04/93	1	464.	464.	464.	464.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	08/04/93-08/04/93	1 ##	0.15	0.15	0.15	0.15	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	08/04/93-08/04/93	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	1	3.5	3.5	3.5	3.5	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	1	27.4	27.4	27.4	27.4	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	08/04/93-08/04/93	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	08/04/93-08/04/93	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	08/04/93-08/04/93	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/04/93-08/04/93	1	131.	131.	131.	131.	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/04/93-08/04/93	1	358.	358.	358.	358.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	08/04/93-08/04/93	1	443.	443.	443.	443.	0.	0.	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	08/04/93-08/04/93	1 ##	0.45	0.45	0.45	0.45	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	08/04/93-08/04/93	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0059

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	08/04/93-08/04/93	1	27.7	27.7	27.7	27.7	0.	0.	**	**	**	**
01077 SILVER, TOTAL (UG/L AS AG)	08/04/93-08/04/93	1 ##	1.45	1.45	1.45	1.45	0.	0.	**	**	**	**
01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/04/93-08/04/93	1 ##	0.55	0.55	0.55	0.55	0.	0.	**	**	**	**
01081 STRONTIUM, SUSPENDED (UG/L AS SR)	08/04/93-08/04/93	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01088 VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/04/93-08/04/93	1	46.7	46.7	46.7	46.7	0.	0.	**	**	**	**
01093 ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/04/93-08/04/93	1	134.	134.	134.	134.	0.	0.	**	**	**	**
01108 ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/04/93-08/04/93	1	19400.	19400.	19400.	19400.	0.	0.	**	**	**	**
01153 TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/04/93-08/04/93	1 ##	0.17	0.17	0.17	0.17	0.	0.	**	**	**	**
01170 IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/04/93-08/04/93	1	15500.	15500.	15500.	15500.	0.	0.	**	**	**	**
04133 MERCURY, BED MAT, DRY WT, SEDIMENT,	08/04/93-08/04/93	1	0.22	0.22	0.22	0.22	0.	0.	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)	08/04/93-08/04/93	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
81373 SOLIDS IN SEDIMENT SAMPLE PERCENT DRY WEIGHT (%)	08/04/93-08/04/93	2	41.15	41.15	41.2	41.1	0.005	0.071	**	**	**	**
81951 TOTAL ORGANIC CARBON (TOC) SEDIMENT DRY WEIGHT MG/KG	08/04/93-08/04/93	1	35000.	35000.	35000.	35000.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0059

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
01002 ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00										1	0	0.00
	Drinking Water	50.	1	0	0.00										1	0	0.00
01012 BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00										1	0	0.00
	Drinking Water	4.	1	0	0.00										1	0	0.00
01027 CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00										1	0	0.00
	Drinking Water	5.	1	0	0.00										1	0	0.00
01034 CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00										1	0	0.00
01042 COPPER, TOTAL	Fresh Acute	18.	1	0	0.00										1	0	0.00
	Drinking Water	1300.	1	0	0.00										1	0	0.00
01059 THALLIUM, TOTAL	Fresh Acute	1400.	1	0	0.00										1	0	0.00
	Drinking Water	2.	1	0	0.00										1	0	0.00
01067 NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00										1	0	0.00
	Drinking Water	100.	1	0	0.00										1	0	0.00
01077 SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00										1	0	0.00
	Drinking Water	100.	1	0	0.00										1	0	0.00
71900 MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00										1	0	0.00
	Drinking Water	2.	1	0	0.00										1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0060

NPS Station ID: TUZI0060 LAT/LON: 34.775393/-112.040976
 Location: CENTER OF PECKS LAKE 1000 FEET NW OF DIRT ROAD
 Station Type: /RESERV/TYPA/AMBNT/MINE
 RMI-Indexes:
 RMI-Miles:
 HUC: 15060202 Depth of Water: 0
 Major Basin: COLORADO RIVER Elevation: 0
 Minor Basin: GILA RIVER
 RF1 Index: 15060202 RF1 Mile Point: 0.000
 RF3 Index: 15060202002505.59 RF3 Mile Point: 6.29
 Description:

Agency: 11NPSWRD
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): TUZI_EPA_12
 Within Park Boundary: No

Date Created: 09/26/98

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.01

On/Off RF1:
 On/Off RF3:

THE STATION IS LOCATED ON THE CLARKDALE AZ-YAVAPAI COUNTY 7.5 MINUTE FROM THE CENTER OF PECKS LAKE; 1000 FEET NORTHWEST OF THE DIRT ROAD. THIS SITE IS LOCATED OUTSIDE OF THE TUZIGOOT NATIONAL MONUMENT (TUZI) BOUNDARY. THE DATA ARE FROM AN EXPANDED SITE INSPECTION REPORT FOR THE PHELPS DODGE VERDE MINE AREA BY ECOLOGY AND ENVIRONMENT; INC. UNDER CONTRACT BY THE EPA. THE STUDY WAS CONDUCTED TO DETERMINE IF METALS ARE BEING RELEASED INTO THE ENVIRONMENT FROM A 116 ACRE TAILINGS PILE WHICH IS ADJACENT TO THE VERDE RIVER AND "CONTAINS APPROXIMATELY 4 MILLION TONS OF MINING WASTES." NPS STAFF ASSIGNED "J" STORET REMARK CODES TO SOME VALUES THAT WERE ESTIMATED FROM ANALYTICAL MEASUREMENTS. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT TUZI; PO BOX 219; CAMP VERDE AZ 86332 (520-634-5564). DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NPS WATER RESOURCES DIVISION;

1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (970-225-3516).

Parameter Inventory for Station: TUZI0060

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/04/93-08/04/93	1	170000.	170000.	170000.	170000.	0.	0.	**	**	**	**
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/04/93-08/04/93	1	15900.	15900.	15900.	15900.	0.	0.	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/04/93-08/04/93	1	58.	58.	58.	58.	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/04/93-08/04/93	1	510.	510.	510.	510.	0.	0.	**	**	**	**
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	1	5.7	5.7	5.7	5.7	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	1	22.4	22.4	22.4	22.4	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/04/93-08/04/93	1	369.	369.	369.	369.	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/04/93-08/04/93	1	129.	129.	129.	129.	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/04/93-08/04/93	1	774.	774.	774.	774.	0.	0.	**	**	**	**
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/04/93-08/04/93	1##	1.2	1.2	1.2	1.2	0.	0.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/04/93-08/04/93	1	481.	481.	481.	481.	0.	0.	**	**	**	**
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/04/93-08/04/93	1	16400.	16400.	16400.	16400.	0.	0.	**	**	**	**
01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/04/93-08/04/93	1##	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/04/93-08/04/93	1	20900.	20900.	20900.	20900.	0.	0.	**	**	**	**
81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	08/04/93-08/04/93	2	18.85	18.85	20.	17.7	2.645	1.626	**	**	**	**
81951	TOTAL ORGANIC CARBON(TOC)SEDIMENT DRY WEIGHT MG/KG	08/04/93-08/04/93	1	47500.	47500.	47500.	47500.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: TUZI0061

NPS Station ID: TUZI0061
 Location: BITTER CK AB RAILROAD BRIDGE AT CLARKDALE AZ
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 15060202
 Major Basin:
 Minor Basin:
 RF1 Index: 1506020205
 RF3 Index: 15060202079300.00
 Description:

LAT/LON: 34.775559/-112.050837

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 14.330
 RF3 Mile Point: 0.43

Agency: 112WRD
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): 344632112030300
 Within Park Boundary: No

Date Created: 12/02/81

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 1.20
 Distance from RF3: 0.10

On/Off RF1: OFF
 On/Off RF3:

Parameter Inventory for Station: TUZI0061

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/25/81-02/25/81	1	17.	17.	17.	17.	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/25/81-02/25/81	1	860.	860.	860.	860.	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)	02/25/81-02/25/81	1	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	02/25/81-02/25/81	1	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/25/81-02/25/81	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	02/25/81-02/25/81	1	410.	410.	410.	410.	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	02/25/81-02/25/81	1	87.	87.	87.	87.	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	02/25/81-02/25/81	1	46.	46.	46.	46.	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS NA)	02/25/81-02/25/81	1	31.	31.	31.	31.	0.	0.	**	**	**	**
00931 SODIUM ADSORPTION RATIO	02/25/81-02/25/81	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SiO2)	02/25/81-02/25/81	1	25.	25.	25.	25.	0.	0.	**	**	**	**
01000 ARSENIC, DISSOLVED (UG/L AS AS)	02/25/81-02/25/81	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01005 BARIUM, DISSOLVED (UG/L AS BA)	02/25/81-02/25/81	1	50.	50.	50.	50.	0.	0.	**	**	**	**
01010 BERYLLIUM, DISSOLVED (UG/L AS BE)	02/25/81-02/25/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01025 CADMIUM, DISSOLVED (UG/L AS CD)	02/25/81-02/25/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01032 CHROMIUM, HEXAVALENT (UG/L AS CR)	02/25/81-02/25/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01035 COBALT, DISSOLVED (UG/L AS CO)	02/25/81-02/25/81	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01040 COPPER, DISSOLVED (UG/L AS CU)	02/25/81-02/25/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01046 IRON, DISSOLVED (UG/L AS FE)	02/25/81-02/25/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01049 LEAD, DISSOLVED (UG/L AS PB)	02/25/81-02/25/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01056 MANGANESE, DISSOLVED (UG/L AS MN)	02/25/81-02/25/81	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01060 MOLYBDENUM, DISSOLVED (UG/L AS MO)	02/25/81-02/25/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01080 STRONTIUM, DISSOLVED (UG/L AS SR)	02/25/81-02/25/81	1	630.	630.	630.	630.	0.	0.	**	**	**	**
01085 VANADIUM, DISSOLVED (UG/L AS V)	02/25/81-02/25/81	1	13.	13.	13.	13.	0.	0.	**	**	**	**
01090 ZINC, DISSOLVED (UG/L AS ZN)	02/25/81-02/25/81	1	120.	120.	120.	120.	0.	0.	**	**	**	**
01106 ALUMINUM, DISSOLVED (UG/L AS AL)	02/25/81-02/25/81	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01130 LITHIUM, DISSOLVED (UG/L AS LI)	02/25/81-02/25/81	1	16.	16.	16.	16.	0.	0.	**	**	**	**
01145 SELENIUM, DISSOLVED (UG/L AS SE)	02/25/81-02/25/81	1	5.	5.	5.	5.	0.	0.	**	**	**	**
71890 MERCURY, DISSOLVED (UG/L AS HG)	02/25/81-02/25/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
82082 DEUTERIUM/PROTIUM (H-2/H-1) STABLE ISOTOPE RATIO	02/25/81-02/25/81	1	-75.	-75.	-75.	-75.	0.	0.	**	**	**	**
82085 OXYGEN-18/OXYGEN-16 STABLE ISOTOPE RATIO PER MIL	02/25/81-02/25/81	1	-10.2	-10.2	-10.2	-10.2	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0061

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400 PH	Fresh Chronic	9.	1	0	0.00				1	0	0.00						
	Other-Lo Lim.	6.5	1	0	0.00				1	0	0.00						
01000 ARSENIC, DISSOLVED	Fresh Acute	360.	1	0	0.00				1	0	0.00						
	Drinking Water	50.	1	0	0.00				1	0	0.00						
01005 BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00				1	0	0.00						
01010 BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00				1	0	0.00						
	Drinking Water	4.	1	0	0.00				1	0	0.00						
01025 CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0	0.00				1	0	0.00						
	Drinking Water	5.	1	0	0.00				1	0	0.00						
01032 CHROMIUM, HEXAVALENT	Fresh Acute	16.	1	0	0.00				1	0	0.00						
	Drinking Water	100.	1	0	0.00				1	0	0.00						
01040 COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00				1	0	0.00						
	Drinking Water	1300.	1	0	0.00				1	0	0.00						
01049 LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00				1	0	0.00						
	Drinking Water	15.	1	0	0.00				1	0	0.00						
01090 ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00				1	1	1.00						
	Drinking Water	5000.	1	0	0.00				1	0	0.00						
01145 SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00				1	0	0.00						
	Drinking Water	50.	1	0	0.00				1	0	0.00						
71890 MERCURY, DISSOLVED	Fresh Acute	2.4	1	0	0.00				1	0	0.00						
	Drinking Water	2.	1	0	0.00				1	0	0.00						

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0062

NPS Station ID: TUZI0062

Location: "NO INFORMATION IN THE STATION HEADER FILE."

Station Type: /TYPA/AMBNT/STREAM

RMI-Indexes:

RMI-Miles:

HUC: 15060202

Major Basin:

Minor Basin:

RF1 Index: 15060202

RF3 Index: 15060202006600.00

Description:

LAT/LON: 34.775559/-112.050837

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 0.00

Agency: 112WRD

FIPS State/County: 04025 ARIZONA/YAVAPAI

STORET Station ID(s): 344632112030301

Within Park Boundary: No

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.01

Date Created: 12/02/81

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: TUZI0062

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
***** No Parameter Data Available for this Station *****												

Station Inventory for Station: TUZI0063

NPS Station ID: TUZI0063

Location: EAST SHORE OF PECKS LAKE NW OF DIRT ROAD

Station Type: /RESERV/TYPA/AMBNT/MINE

RMI-Indexes:

RMI-Miles:

HUC: 15060202

Major Basin: COLORADO RIVER

Minor Basin: GILA RIVER

RF1 Index: 15060202

RF3 Index: 15060202002505.59

Description:

LAT/LON: 34.775587/-112.040782

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 6.29

Agency: 11NPSWRD

FIPS State/County: 04025 ARIZONA/YAVAPAI

STORET Station ID(s): TUZI_EPA_13

Within Park Boundary: No

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.01

Date Created: 09/26/98

On/Off RF1:

On/Off RF3:

THE STATION IS LOCATED ON THE CLARKDALE AZ-YAVAPAI COUNTY 7.5 MINUTE FROM THE EAST SHORE OF PECKS LAKE; NORTHWEST OF THE DIRT ROAD. THIS SITE IS LOCATED OUTSIDE OF THE TUZIGOOT NATIONAL MONUMENT (TUZI) BOUNDARY. THE DATA ARE FROM AN EXPANDED SITE INSPECTION REPORT FOR THE PHELPS DODGE VERDE MINE AREA BY ECOLOGY AND ENVIRONMENT; INC. UNDER CONTRACT BY THE EPA. THE STUDY WAS CONDUCTED TO DETERMINE IF METALS ARE BEING RELEASED INTO THE ENVIRONMENT FROM A 116 ACRE TAILINGS PILE WHICH IS ADJACENT TO THE VERDE RIVER AND "CONTAINS APPROXIMATELY 4 MILLION TONS OF MINING WASTES." NPS STAFF ASSIGNED "J" STORET REMARK CODES TO SOME VALUES THAT WERE ESTIMATED FROM ANALYTICAL MEASUREMENTS. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT TUZI; PO BOX 219; CAMP VERDE AZ 86332 (520-634-5564). DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NPS WATER RESOURCES DIVISION;

1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (970-225-3516).

Parameter Inventory for Station: TUZI0063

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th	
00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/04/93-08/04/93	1	175000.	175000.	175000.	175000.	0.	0.	**	**	**	**
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/04/93-08/04/93	1	16000.	16000.	16000.	16000.	0.	0.	**	**	**	**
00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/04/93-08/04/93	1	3270.	3270.	3270.	3270.	0.	0.	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/04/93-08/04/93	1	58.	58.	58.	58.	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/04/93-08/04/93	1	473.	473.	473.	473.	0.	0.	**	**	**	**
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	1	20.4	20.4	20.4	20.4	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/04/93-08/04/93	1	312.	312.	312.	312.	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/04/93-08/04/93	1	123.	123.	123.	123.	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/04/93-08/04/93	1	744.	744.	744.	744.	0.	0.	**	**	**	**
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/04/93-08/04/93	1 ##	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/04/93-08/04/93	1	486.	486.	486.	486.	0.	0.	**	**	**	**
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/04/93-08/04/93	1	13000.	13000.	13000.	13000.	0.	0.	**	**	**	**
01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/04/93-08/04/93	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/04/93-08/04/93	1	17900.	17900.	17900.	17900.	0.	0.	**	**	**	**
04133	MERCURY, BED MAT,DRY WT,SEDIMENT,	08/04/93-08/04/93	1	0.48	0.48	0.48	0.48	0.	0.	**	**	**	**
81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	08/04/93-08/04/93	2	28.35	28.35	28.8	27.9	0.405	0.636	**	**	**	**
81951	TOTAL ORGANIC CARBON(TOC)SEDIMENT DRY WEIGHT MG/KG	08/04/93-08/04/93	1	35600.	35600.	35600.	35600.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: TUZI0064

NPS Station ID: TUZI0064 LAT/LON: 34.776060/-112.046559

Location: VERDE RIVER DOWNSTREAM OF BITTER CREEK

Station Type: /TYPA/AMBNT/STREAM/SOLIDS/MINE

RMI-Indexes:

RMI-Miles:

HUC: 15060202

Major Basin: COLORADO RIVER

Minor Basin: GILA RIVER

RF1 Index: 15060202

RF3 Index: 15060202002505.59

Description:

THE STATION IS LOCATED ON THE CLARKDALE AZ-YAVAPAI COUNTY 7.5 MINUTE VERDE RIVER DOWNSTREAM OF BITTER CREEK. THE SITE IS LOCATED OUTSIDE SCREENING INVESTIGATION REPORT FOR THE PHELPS DODGE VERDE MINE AREA WAS CONDUCTED TO DETERMINE IF METALS ARE BEING RELEASED INTO THE RIVER AND "CONTAINS APPROXIMATELY 4 MILLION TONS OF MINING WASTES." ESTIMATED FROM ANALYTICAL MEASUREMENTS. FOR MORE INFORMATION CONTACT (520-634-5564). DATA WERE PROCESSED AND UPLOADED TO STORET BY 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (970-225-3516).

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 6.29

Agency: 11NPSWRD

FIPS State/County: 04025 ARIZONA/YAVAPAI

STORET Station ID(s): TUZI_EPA_EE08

Within Park Boundary: No

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.01

Date Created: 11/28/98

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: TUZI0064

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	06/29/92-06/29/92	1	76000.	76000.	76000.	76000.	0.	0.	**	**	**	**
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	06/29/92-06/29/92	1	8680.	8680.	8680.	8680.	0.	0.	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/29/92-06/29/92	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/29/92-06/29/92	1	439.	439.	439.	439.	0.	0.	**	**	**	**
01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/29/92-06/29/92	1 ##	0.13	0.13	0.13	0.13	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/29/92-06/29/92	1	8.8	8.8	8.8	8.8	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/29/92-06/29/92	1	13.8	13.8	13.8	13.8	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/29/92-06/29/92	1	2.2	2.2	2.2	2.2	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/29/92-06/29/92	1	166.	166.	166.	166.	0.	0.	**	**	**	**
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/29/92-06/29/92	1 ##	0.395	0.395	0.395	0.395	0.	0.	**	**	**	**
01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	06/29/92-06/29/92	1	16.5	16.5	16.5	16.5	0.	0.	**	**	**	**
01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	06/29/92-06/29/92	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/29/92-06/29/92	1	5700.	5700.	5700.	5700.	0.	0.	**	**	**	**
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/29/92-06/29/92	1 ##	0.65	0.65	0.65	0.65	0.	0.	**	**	**	**
01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	06/29/92-06/29/92	1 ##	0.065	0.065	0.065	0.065	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/29/92-06/29/92	1	8210.	8210.	8210.	8210.	0.	0.	**	**	**	**
04133	MERCURY, BED MAT,DRY WT,SEDIMENT.	06/29/92-06/29/92	1 ##	0.065	0.065	0.065	0.065	0.	0.	**	**	**	**
81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	06/29/92-06/29/92	1	75.9	75.9	75.9	75.9	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: TUZI0065

NPS Station ID: TUZI0065
 Location: BITTER CREEK NEAR MOUTH
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 15060202
 Major Basin: COLORADO RIVER
 Minor Basin: GILA**SALT**VERDE
 RF1 Index: 15060202025
 RF3 Index: 15060202002600.00
 Description:

LAT/LON: 34.776115/-112.048059

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 14.330
 RF3 Mile Point: 0.11

Agency: 21ARIZ
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): 702600000000080/VR 018
 Within Park Boundary: No

Date Created: / /

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 1.50
 Distance from RF3: 0.01

On/Off RF1: OFF
 On/Off RF3:

LAT 34 46'34", LONG 112 02'53", NE1/4 NW1/4, SEC 20, T16N, R3E, YAVAPAI CO, IN CLARKDALE, AZ, UNDER DOWNSTREAM SIDE OF CONCRETE BRIDGE
 NEAR CENTER OF TOWN, ON LEFT BANK, 0.8 KM (0.5 MI) UPSTREAM FROM CONFLUENCE WITH VERDE RIVER, 221.8 KM (138.6 MI) UPSTREAM FROM
 CONFLUENCE WITH SALT RIVER.

Parameter Inventory for Station: TUZI0065

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/30/73-02/07/73	4	8.75	8.625	13.	4.	16.896	4.11	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS CFS	02/06/73-02/07/73	2	2.5	2.5	4.	1.	4.5	2.121	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/30/73-06/13/79	3	1200.	1570.	2500.	1010.	657700.	810.987	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	01/30/73-01/30/73	1	9.3	9.3	9.3	9.3	0.	0.	**	**	**	**
00310 BOD, 5 DAY, 20 DEG C MG/L	02/07/73-02/07/73	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00403 PH, LAB, STANDARD UNITS SU	01/30/73-06/13/79	3	7.8	6.333	8.2	3.	8.373	2.894	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	01/30/73-06/13/79	3	7.8	3.477	8.2	3.	20.61	4.54	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/30/73-06/13/79	3	0.016	333.341	1000.	0.006	333325.947	577.344	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	01/30/73-06/13/79	3	198.	136.667	212.	0.	14057.333	118.564	**	**	**	**
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)	06/13/79-06/13/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00500 RESIDUE, TOTAL (MG/L)	06/13/79-06/13/79	1	5885.	5885.	5885.	5885.	0.	0.	**	**	**	**
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	01/30/73-01/30/73	1	700.	700.	700.	700.	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	01/30/73-01/30/73	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00650 PHOSPHATE, TOTAL (MG/L AS PO4)	01/30/73-01/30/73	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	01/30/73-02/06/73	2	720.	720.	756.	684.	2592.	50.912	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	01/30/73-02/06/73	2	154.5	154.5	157.	152.	12.5	3.536	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS Ca)	06/13/79-06/13/79	1	550.	550.	550.	550.	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	01/30/73-02/06/73	2	80.	80.	90.	70.	200.	14.142	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)	06/13/79-06/13/79	1	500.	500.	500.	500.	0.	0.	**	**	**	**
00929 SODIUM, TOTAL (MG/L AS NA)	06/13/79-06/13/79	1	47.	47.	47.	47.	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS NA)	01/30/73-02/06/73	2	30.	30.	30.	30.	0.	0.	**	**	**	**
00940 CHLORIDE, TOTAL IN WATER MG/L	01/30/73-06/13/79	3	26.	22.	28.	12.	76.	8.718	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	01/30/73-06/13/79	3	550.	1816.667	4450.	450.	5203333.333	2281.082	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	01/30/73-02/06/73	2	0.305	0.305	0.31	0.3	0.	0.007	**	**	**	**
00951 FLUORIDE, TOTAL (MG/L AS F)	06/13/79-06/13/79	1	1.2	1.2	1.2	1.2	0.	0.	**	**	**	**
00997 ARSENIC, INORGANIC TOT (UG/L AS AS)	01/30/73-01/30/73	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01002 ARSENIC, TOTAL (UG/L AS AS)	06/13/79-06/13/79	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01027 CADMIUM, TOTAL (UG/L AS CD)	01/30/73-06/13/79	2 ##	12.5	12.5	25.	0.	312.5	17.678	**	**	**	**
01034 CHROMIUM, TOTAL (UG/L AS CR)	01/30/73-06/13/79	2 ##	2.5	2.5	5.	0.	12.5	3.536	**	**	**	**
01042 COPPER, TOTAL (UG/L AS CU)	01/30/73-06/13/79	3 ##	25.	3350.	10000.	25.	33166875.	5759.069	**	**	**	**
01045 IRON, TOTAL (UG/L AS FE)	01/30/73-06/13/79	3 ##	25.	30683.333	92000.	25.	2819800208.333	53101.791	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0065

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01051 LEAD, TOTAL (UG/L AS PB)	01/30/73-06/13/79	2 ##	12.5	12.5	25.	0.	312.5	17.678	**	**	**	**
01055 MANGANESE, TOTAL (UG/L AS MN)	01/30/73-06/13/79	2 ##	7012.5	7012.5	14000.	25.	97650312.5	9881.817	**	**	**	**
01077 SILVER, TOTAL (UG/L AS AG)	01/30/73-06/13/79	2 ##	12.5	12.5	25.	0.	312.5	17.678	**	**	**	**
01092 ZINC, TOTAL (UG/L AS ZN)	01/30/73-06/13/79	2 ##	84012.5	84012.5	168000.	25.14107800312.5	118776.262		**	**	**	**
01147 SELENIUM, TOTAL (UG/L AS SE)	06/13/79-06/13/79	1	10.	10.	10.	10.	0.	0.	**	**	**	**
31616 FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	01/31/73-01/31/73	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
31616 LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	01/31/73-01/31/73	1 ##	-0.301	-0.301	-0.301	-0.301	0.	0.	**	**	**	**
31616 GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN =			0.5								
70301 SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	02/06/73-02/06/73	1	985.	985.	985.	985.	0.	0.	**	**	**	**
71850 NITRATE NITROGEN, TOTAL (MG/L AS NO3)	01/30/73-06/13/79	3	2.	3.333	8.	0.	17.333	4.163	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)	01/30/73-06/13/79	2 ##	0.125	0.125	0.25	0.	0.031	0.177	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0065

Parameter	Std. Type	Std. Value	Total			Prop.			-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
			Obs	Exceed Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300 OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00												
00403 PH, LAB	Fresh Chronic	9.	3	0	0.00	2	0	0.00							1	0	0.00			
	Other-Lo Lim.	6.5	3	1	0.33	2	0	0.00							1	1	1.00			
00940 CHLORIDE, TOTAL IN WATER	Fresh Acute	860.	3	0	0.00	2	0	0.00							1	0	0.00			
	Drinking Water	250.	3	0	0.00	2	0	0.00							1	0	0.00			
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	250.	3	3	1.00	2	2	1.00							1	1	1.00			
00950 FLUORIDE, DISSOLVED AS F	Drinking Water	4.	2	0	0.00	2	0	0.00												
00951 FLUORIDE, TOTAL AS F	Drinking Water	4.	1	0	0.00										1	0	0.00			
00997 ARSENIC, INORGANIC TOT	Fresh Acute	360.	1	0	0.00	1	0	0.00												
	Drinking Water	50.	1	0	0.00	1	0	0.00												
01002 ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00										1	0	0.00			
	Drinking Water	50.	1	0	0.00										1	0	0.00			
01027 CADMIUM, TOTAL	Fresh Acute	3.9	1 &	0	0.00										1	0	0.00			
	Drinking Water	5.	1 &	0	0.00										1	0	0.00			
01034 CHROMIUM, TOTAL	Drinking Water	100.	2	0	0.00	1	0	0.00							1	0	0.00			
01042 COPPER, TOTAL	Fresh Acute	18.	1 &	1	1.00										1	1	1.00			
	Drinking Water	1300.	3	1	0.33	2	0	0.00							1	1	1.00			
01051 LEAD, TOTAL	Fresh Acute	82.	2	0	0.00	1	0	0.00							1	0	0.00			
	Drinking Water	15.	1 &	0	0.00										1	0	0.00			
01077 SILVER, TOTAL	Fresh Acute	4.1	1 &	0	0.00										1	0	0.00			
	Drinking Water	100.	2	0	0.00	1	0	0.00							1	0	0.00			
01092 ZINC, TOTAL	Fresh Acute	120.	2	1	0.50	1	0	0.00							1	1	1.00			
	Drinking Water	5000.	2	1	0.50	1	0	0.00							1	1	1.00			
01147 SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00										1	0	0.00			
	Drinking Water	50.	1	0	0.00										1	0	0.00			
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	1	0	0.00	1	0	0.00												
71850 NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	3	0	0.00	2	0	0.00							1	0	0.00			
71900 MERCURY, TOTAL	Fresh Acute	2.4	2	0	0.00	1	0	0.00							1	0	0.00			
	Drinking Water	2.	2	0	0.00	1	0	0.00							1	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0066

NPS Station ID: TUZI0066 LAT/LON: 34.776198/-112.079920

Location: BITTER CREEK NEAR CEMENT PLANT BRIDGE

Station Type: /TYPA/AMBNT/STREAM

RMI-Indexes:

RMI-Miles:

HUC: 15060202

Major Basin: COLORADO RIVER

Minor Basin: GILA RIVER

RF1 Index: 15060202

RF3 Index: 15060202006600.00

Description:

T16N, R2E, SEC 12, YAVAPAI COUNTY. RIGHT FORK OF BITTER CREEK COMING FROM HOPEWELL TUNNEL. 3.63 KM. (2.25MI) FROM CONFLUENCE OF VERDE RIVER.

INTENSIVE SURVEY NO. 800401 WAS CONDUCTED IN ASSOCIATION WITH NACOG, STARTING FEB, 1980

Agency: 21ARIZ

FIPS State/County: 04025 ARIZONA/YAVAPAI

STORET Station ID(s): 702600100000363/VV04

Within Park Boundary: No

Date Created: 06/28/80

Depth of Water: 0

Elevation: 0

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.00

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: TUZI0066

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/12/80-04/29/83	14	16.	13.729	24.	0.3	72.259	8.501	0.65	5.625	20.75	23.5
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/12/80-04/29/83	13	19.	17.923	29.5	1.	92.535	9.62	3.4	7.75	26.5	29.3
00061 FLOW, STREAM, INSTANTANEOUS CFS	02/12/80-02/12/80	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	02/12/80-12/09/80	12	15.5	24.133	60.	0.6	530.395	23.03	1.02	4.	50.5	59.1
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	02/12/80-04/29/83	11	6000.	6000.	7600.	4100.	1016000.	1007.968	4280.	5300.	7000.	7480.
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/12/80-04/29/83	6	3666.5	3428.	5000.	1190.	1984982.	1408.894	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	02/12/80-04/29/83	14	8.7	8.729	13.4	6.4	3.63	1.905	6.7	7.175	9.15	12.6
00400 PH (STANDARD UNITS)	02/12/80-04/29/83	14	3.075	3.843	8.3	2.7	3.651	1.911	2.725	2.875	3.6	8.3
00400 CONVERTED PH (STANDARD UNITS)	02/12/80-04/29/83	14	3.074	3.076	8.3	2.7	4.284	2.07	2.725	2.875	3.6	8.3
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/12/80-04/29/83	14	842.79	839.465	1995.262	0.005	417222.244	645.927	0.005	251.189	1340.417	1886.771
00403 PH, LAB, STANDARD UNITS SU	02/12/80-04/29/83	6	3.2	4.483	8.1	2.	7.85	2.802	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	02/12/80-04/29/83	6	3.2	2.595	8.1	2.	12.128	3.483	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/12/80-04/29/83	6	630.957	2540.501	10000.	0.00815584056.545	3947.665	149.632	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	02/12/80-04/29/83	6	0.	95.333	324.	0.	22389.867	149.632	**	**	**	**
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)	02/12/80-04/29/83	6	0.	0.	0.	0.	0.	0.	**	**	**	**
00500 RESIDUE, TOTAL (MG/L)	02/12/80-04/29/83	6	5347.	4766.5	6051.	1324.	3133566.7	1770.188	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/19/80-03/19/80	1	74.	74.	74.	74.	0.	0.	**	**	**	**
00600 NITROGEN, TOTAL (MG/L AS N)	06/17/80-12/09/80	8	0.95	0.95	1.4	0.4	0.143	0.378	**	**	**	**
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	02/12/80-04/29/83	5	0.02	0.018	0.033	0.005	0.	0.011	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	02/12/80-12/09/80	13	0.46	0.538	1.2	0.05	0.149	0.386	0.05	0.17	0.9	1.084
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/17/80-12/09/80	8	0.68	0.681	0.94	0.37	0.05	0.224	**	**	**	**
00650 PHOSPHATE, TOTAL (MG/L AS PO4)	06/17/80-12/09/80	8	0.045	0.069	0.25	0.005	0.007	0.084	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	02/12/80-04/29/83	6 ##	0.015	0.014	0.025	0.005	0.	0.009	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	02/12/80-04/29/83	6	3628.5	3195.333	4013.	1090.	1211634.267	1100.743	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS Ca)	02/12/80-04/29/83	6	350.	369.667	520.	248.	9896.667	99.482	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)	02/12/80-04/29/83	6	475.	431.333	600.	113.	30420.667	174.415	**	**	**	**
00929 SODIUM, TOTAL (MG/L AS Na)	02/12/80-04/29/83	6	32.	35.8	61.8	22.	189.68	13.772	**	**	**	**
00937 POTASSIUM, TOTAL MG/L AS K)	04/15/80-05/20/80	2	10.5	10.5	13.	8.	12.5	3.536	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	02/12/80-04/29/83	9	12.	14.444	26.	9.	36.028	6.002	9.	10.	20.	26.
00945 SULFATE, TOTAL (MG/L AS SO4)	02/12/80-04/29/83	14	4825.	4655.286	6560.	710.	3111129.604	1763.839	1355.	3656.	6275.	6530.
00951 FLUORIDE, TOTAL (MG/L AS F)	02/12/80-04/29/83	4	0.295	0.318	0.43	0.25	0.006	0.081	**	**	**	**
00956 SILICA, TOTAL (MG/L AS SiO2)	05/20/80-05/20/80	1	47.1	47.1	47.1	47.1	0.	0.	**	**	**	**
01000 ARSENIC, DISSOLVED (UG/L AS AS)	04/15/80-12/09/80	10 ##	5.	5.8	12.	5.	4.844	2.201	5.	5.	5.25	11.4

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0066

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01002	ARSENIC, TOTAL (UG/L AS AS)	02/12/80-04/29/83	7	14.	20.	44.	5.	242.333	15.567	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/26/80-08/26/80	1	0.43	0.43	0.43	0.43	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/20/80-12/09/80	9	43.	214.	650.	15.	74004.	272.037	15.	28.5	535.
01027	CADMIUM, TOTAL (UG/L AS CD)	02/12/80-04/29/83	14	34.	148.821	660.	2.5	56594.446	237.896	3.75	19.	171.75
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/17/80-08/26/80	2 ##	0.25	0.25	0.25	0.25	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/17/80-08/26/80	2	3.15	3.15	4.5	1.8	3.645	1.909	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/20/80-12/09/80	9 ##	25.	22.778	25.	5.	44.444	6.667	5.	25.	25.
01034	CHROMIUM, TOTAL (UG/L AS CR)	02/12/80-04/29/83	14 ##	25.	17.5	25.	5.	95.192	9.757	5.	5.	25.
01040	COPPER, DISSOLVED (UG/L AS CU)	04/15/80-12/09/80	10	8100.	10010.	19500.	6300.	18236555.556	4270.428	6420.	7650.	11500.
01042	COPPER, TOTAL (UG/L AS CU)	02/12/80-04/29/83	14	8350.	12196.429	32500.	40.	104247809.341	10210.182	275.	7225.	18825.
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/17/80-08/26/80	2	93.65	93.65	180.	7.3	14912.645	122.117	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	02/12/80-04/29/83	7	203000.	155278.571	240000.	50.10992261547.619	104843.987	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	04/15/80-12/09/80	10	205000.	191624.2	400000.	242.11006190923.067	104910.395	7317.8	146750.	227250.	384000.
01049	LEAD, DISSOLVED (UG/L AS PB)	04/15/80-12/09/80	10	30.	30.7	50.	10.	121.567	11.026	11.	25.25	37.5
01051	LEAD, TOTAL (UG/L AS PB)	02/12/80-04/29/83	7	20.	17.857	28.	10.	63.476	7.967	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/17/80-08/26/80	2 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	02/12/80-04/29/83	6	12850.	9799.167	18000.	25.	61062704.167	7814.263	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/15/80-04/15/80	1	15000.	15000.	15000.	15000.	0.	0.	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	05/20/80-05/20/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	03/19/80-04/29/83	2 ##	6.5	6.5	8.	5.	4.5	2.121	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	04/15/80-12/09/80	10	298000.	275370.	540000.	17000.25740457888.889	160438.33	17870.	163925.	371250.	523500.
01092	ZINC, TOTAL (UG/L AS ZN)	02/12/80-04/29/83	14	237000.	225880.714	540000.	760.28749821791.758	169557.724	1165.	27750.	372500.	473500.
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/17/80-08/26/80	2	1150.	1150.	1300.	1000.	45000.	212.132	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	04/15/80-05/20/80	2	6.5	6.5	7.	6.	0.5	0.707	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	02/12/80-04/29/83	14 ##	5.	5.429	8.	5.	0.879	0.938	5.	5.	5.25
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/17/80-08/26/80	2	79500.	79500.	123000.	36000.	37845000000.	61518.29	**	**	**
31613	FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24HR	04/15/80-12/09/80	11	0.	0.409	2.	0.	0.391	0.625	0.	0.	0.5
31613	LOG FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24	04/15/80-12/09/80	11	0.	-0.055	0.301	-0.301	0.033	0.182	0.	0.	-0.301
31613	GM FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24H	04/15/80-12/09/80	11	0.	0.882	10.	0.	12.855	3.585	0.	0.	2.
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	04/15/80-12/09/80	11	1.	2.364	1.	0.	0.154	0.392	0.	0.	0.301
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	04/15/80-12/09/80	11	0.	0.205	1.	0.	0.154	0.392	0.	0.	0.301
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	04/15/80-12/09/80	11	0.	1.603	10.	0.	12.855	3.585	0.	0.	2.
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	02/12/80-04/29/83	6	5.5	6.667	15.	2.	19.467	4.412	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	04/15/80-05/20/80	2 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	02/12/80-04/29/83	14 ##	0.1	0.304	2.5	0.05	0.408	0.639	0.05	0.05	0.25
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	02/12/80-04/29/83	6	16.	42.333	160.	3.	3675.067	60.622	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0066

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	12	3	0.25	3	1	0.33	3	1	0.33	2	0	0.00	4	1
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	14	0	0.00	3	0	0.00	5	0	0.00	2	0	0.00	4	0
00400	PH	Fresh Chronic	9.	14	0	0.00	3	0	0.00	5	0	0.00	2	0	0.00	4	0
		Other-Lo Lim.	6.5	14	12	0.86	3	3	1.00	5	3	0.60	2	2	1.00	4	4
00403	PH, LAB	Fresh Chronic	9.	6	0	0.00				5	0	0.00	1	0	0.00		
		Other-Lo Lim.	6.5	6	4	0.67				5	3	0.60	1	1	1.00		
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	5	0	0.00				4	0	0.00	1	0	0.00		
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	8	0	0.00	3	0	0.00	5	0	0.00	1	0	0.00	4	0
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	9	0	0.00	3	0	0.00	5	0	0.00	1	0	0.00		
		Drinking Water	250.	9	0	0.00	3	0	0.00	5	0	0.00	1	0	0.00		
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	14	14	1.00	3	3	1.00	5	5	1.00	2	2	1.00	4	4
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	4	0	0.00				4	0	0.00					
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	10	0	0.00	3	0	0.00	1	0	0.00	2	0	0.00	4	0
		Drinking Water	50.	10	0	0.00	3	0	0.00	1	0	0.00	2	0	0.00	4	0
01002	ARSENIC, TOTAL	Fresh Acute	360.	7	0	0.00				5	0	0.00	2	0	0.00		
		Drinking Water	50.	7	0	0.00				5	0	0.00	2	0	0.00		
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	9	9	1.00	3	3	1.00				2	2	1.00	4	4
		Drinking Water	5.	9	9	1.00	3	3	1.00				2	2	1.00	4	4

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: TUZI0066

Parameter	Std. Type	Std. Value	Total			Prop.			-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
			Obs	Exceed Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
01027	CADMIUM, TOTAL	Fresh Acute	3.9	14	13	0.93	3	3	1.00	5	4	0.80	2	2	1.00	4	4	1.00		
		Drinking Water	5.	14	13	0.93	3	3	1.00	5	4	0.80	2	2	1.00	4	4	1.00		
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	9	0	0.00	3	0	0.00				2	0	0.00	4	0	0.00		
01034	CHROMIUM, TOTAL	Drinking Water	100.	14	0	0.00	3	0	0.00	5	0	0.00	2	0	0.00	4	0	0.00		
01040	COPPER, DISSOLVED	Fresh Acute	18.	10	10	1.00	3	3	1.00	1	1	1.00	2	2	1.00	4	4	1.00		
		Drinking Water	1300.	10	10	1.00	3	3	1.00	1	1	1.00	2	2	1.00	4	4	1.00		
01042	COPPER, TOTAL	Fresh Acute	18.	14	14	1.00	3	3	1.00	5	5	1.00	2	2	1.00	4	4	1.00		
		Drinking Water	1300.	14	12	0.86	3	3	1.00	5	3	0.60	2	2	1.00	4	4	1.00		
01049	LEAD, DISSOLVED	Fresh Acute	82.	10	0	0.00	3	0	0.00	1	0	0.00	2	0	0.00	4	0	0.00		
		Drinking Water	15.	10	9	0.90	3	3	1.00	1	1	1.00	2	2	1.00	4	3	0.75		
01051	LEAD, TOTAL	Fresh Acute	82.	7	0	0.00				5	0	0.00	2	0	0.00					
		Drinking Water	15.	7	4	0.57				5	2	0.40	2	2	1.00					
01075	SILVER, DISSOLVED	Fresh Acute	4.1	0 &	0	0.00														
		Drinking Water	100.	1	0	0.00							1	0	0.00					
01077	SILVER, TOTAL	Fresh Acute	4.1	1 &	1	1.00				1	1	1.00								
		Drinking Water	100.	2	0	0.00				2	0	0.00								
01090	ZINC, DISSOLVED	Fresh Acute	120.	10	10	1.00	3	3	1.00	1	1	1.00	2	2	1.00	4	4	1.00		
		Drinking Water	5000.	10	10	1.00	3	3	1.00	1	1	1.00	2	2	1.00	4	4	1.00		
01092	ZINC, TOTAL	Fresh Acute	120.	14	14	1.00	3	3	1.00	5	5	1.00	2	2	1.00	4	4	1.00		
		Drinking Water	5000.	14	12	0.86	3	3	1.00	5	3	0.60	2	2	1.00	4	4	1.00		
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	2	0	0.00				1	0	0.00	1	0	0.00					
		Drinking Water	50.	2	0	0.00				1	0	0.00	1	0	0.00					
01147	SELENIUM, TOTAL	Fresh Acute	20.	14	0	0.00	3	0	0.00	5	0	0.00	2	0	0.00	4	0	0.00		
		Drinking Water	50.	14	0	0.00	3	0	0.00	5	0	0.00	2	0	0.00	4	0	0.00		
31613	FECAL COLIFORM, MEMBRANE FILTER, AGAR	Other-Hi Lim.	200.	11	0	0.00	3	0	0.00	1	0	0.00	3	0	0.00	4	0	0.00		
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	6	0	0.00				5	0	0.00	1	0	0.00					
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	2	0	0.00				1	0	0.00	1	0	0.00					
		Drinking Water	2.	2	0	0.00				1	0	0.00	1	0	0.00					
71900	MERCURY, TOTAL	Fresh Acute	2.4	13 &	0	0.00	3	0	0.00	4	0	0.00	2	0	0.00	4	0	0.00		
		Drinking Water	2.	13 &	0	0.00	3	0	0.00	4	0	0.00	2	0	0.00	4	0	0.00		
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	6	2	0.33				5	2	0.40	1	0	0.00					

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0067

NPS Station ID: TUZI0067 LAT/LON: 34.776503/-112.041699

Location: CENTER OF PECKS LAKE 1500 FEET NW OF DIRT ROAD

Station Type: /RESERV/TYPA/AMBNT/MINE

RMI-Indexes:

RMI-Miles:

HUC: 15060202

Major Basin: COLORADO RIVER

Minor Basin: GILA RIVER

RF1 Index: 15060202

RF3 Index: 15060202002505.59

Description:

THE STATION IS LOCATED ON THE CLARKDALE AZ-YAVAPAI COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SAMPLES INCLUDE SURFACE WATER AND SEDIMENT FROM THE CENTER OF PECKS LAKE; 1500 FEET NORTHWEST OF THE DIRT ROAD. THIS SITE IS LOCATED OUTSIDE OF THE TUZIGOOT NATIONAL MONUMENT (TUZI) BOUNDARY. THE DATA ARE FROM AN EXPANDED SITE INSPECTION REPORT FOR THE PHELPS DODGE VERDE MINE AREA BY ECOLOGY AND ENVIRONMENT; INC. UNDER CONTRACT BY THE EPA. THE STUDY WAS CONDUCTED TO DETERMINE IF METALS ARE BEING RELEASED INTO THE ENVIRONMENT FROM A 116 ACRE TAILINGS PILE WHICH IS ADJACENT TO THE VERDE RIVER AND "CONTAINS APPROXIMATELY 4 MILLION TONS OF MINING WASTES." NPS STAFF ASSIGNED "J" STORET REMARK CODES TO SOME VALUES THAT WERE ESTIMATED FROM ANALYTICAL MEASUREMENTS. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT TUZI; PO BOX 219; CAMP VERDE AZ 86332 (520-634-5564). DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NPS WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (970-225-3516).

Agency: 11NPSWRD

FIPS State/County: 04025 ARIZONA/YAVAPAI

STORET Station ID(s): TUZI_EPA_14

Within Park Boundary: No

Date Created: 09/26/98

Depth of Water: 0

Elevation: 0

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.01

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: TUZI0067

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00916 CALCIUM, TOTAL (MG/L AS CA)	08/04/93-08/04/93	2	46.2	46.2	46.3	46.1	0.02	0.141	**	**	**	**
00917 CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/04/93-08/04/93	1	44400.	44400.	44400.	44400.	0.	0.	**	**	**	**
00924 MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/04/93-08/04/93	1	7600.	7600.	7600.	7600.	0.	0.	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)	08/04/93-08/04/93	2	26.85	26.85	27.3	26.4	0.405	0.636	**	**	**	**
01002 ARSENIC, TOTAL (UG/L AS AS)	08/04/93-08/04/93	2	26.	26.	26.	26.	0.	0.	**	**	**	**
01003 ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/04/93-08/04/93	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
01008 BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/04/93-08/04/93	1	81.2	81.2	81.2	81.2	0.	0.	**	**	**	**
01012 BERYLLIUM, TOTAL (UG/L AS BE)	08/04/93-08/04/93	2 ##	0.15	0.15	0.15	0.15	0.	0.	**	**	**	**
01027 CADMIUM, TOTAL (UG/L AS CD)	08/04/93-08/04/93	2 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01028 CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**
01029 CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	1	15.7	15.7	15.7	15.7	0.	0.	**	**	**	**
01034 CHROMIUM, TOTAL (UG/L AS CR)	08/04/93-08/04/93	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01037 COBALT, TOTAL (UG/L AS CO)	08/04/93-08/04/93	2 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01043 COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/04/93-08/04/93	1	49.5	49.5	49.5	49.5	0.	0.	**	**	**	**
01045 IRON, TOTAL (UG/L AS FE)	08/04/93-08/04/93	2	996.	996.	1000.	992.	32.	5.657	**	**	**	**
01052 LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/04/93-08/04/93	1	17.1	17.1	17.1	17.1	0.	0.	**	**	**	**
01053 MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/04/93-08/04/93	1	125.	125.	125.	125.	0.	0.	**	**	**	**
01055 MANGANESE, TOTAL (UG/L AS MN)	08/04/93-08/04/93	2	129.5	129.5	130.	129.	0.5	0.707	**	**	**	**
01059 THALLIUM, TOTAL (UG/L AS TL)	08/04/93-08/04/93	2 ##	0.45	0.45	0.45	0.45	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0067

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01067 NICKEL, TOTAL (UG/L AS NI)	08/04/93-08/04/93	2 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	08/04/93-08/04/93	1	17.9	17.9	17.9	17.9	0.	0.	**	**	**	**
01077 SILVER, TOTAL (UG/L AS AG)	08/04/93-08/04/93	2 ##	1.45	1.45	1.45	1.45	0.	0.	**	**	**	**
01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/04/93-08/04/93	1 ##	0.355	0.355	0.355	0.355	0.	0.	**	**	**	**
01088 VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/04/93-08/04/93	1	17.8	17.8	17.8	17.8	0.	0.	**	**	**	**
01093 ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/04/93-08/04/93	1	72.	72.	72.	72.	0.	0.	**	**	**	**
01097 ANTIMONY, TOTAL (UG/L AS SB)	08/04/93-08/04/93	2 ##	12.	12.	12.	12.	0.	0.	**	**	**	**
01105 ALUMINUM, TOTAL (UG/L AS AL)	08/04/93-08/04/93	2	759.	759.	786.	732.	1458.	38.184	**	**	**	**
01108 ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/04/93-08/04/93	1	5360.	5360.	5360.	5360.	0.	0.	**	**	**	**
01147 SELENIUM, TOTAL (UG/L AS SE)	08/04/93-08/04/93	1 ##	0.45	0.45	0.45	0.45	0.	0.	**	**	**	**
01153 TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/04/93-08/04/93	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01170 IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/04/93-08/04/93	1	7470.	7470.	7470.	7470.	0.	0.	**	**	**	**
04133 MERCURY, BED MAT, DRY WT, SEDIMENT,	08/04/93-08/04/93	1 ##	0.035	0.035	0.035	0.035	0.	0.	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)	08/04/93-08/04/93	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
81373 SOLIDS IN SEDIMENT SAMPLE PERCENT DRY WEIGHT (%)	08/04/93-08/04/93	2	61.05	61.05	61.8	60.3	1.125	1.061	**	**	**	**
81951 TOTAL ORGANIC CARBON (TOC) SEDIMENT DRY WEIGHT MG/KG	08/04/93-08/04/93	1	8330.	8330.	8330.	8330.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0067

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
01002 ARSENIC, TOTAL	Fresh Acute	360.	2	0	0.00										2	0	0.00
	Drinking Water	50.	2	0	0.00										2	0	0.00
01012 BERYLLIUM, TOTAL	Fresh Acute	130.	2	0	0.00										2	0	0.00
	Drinking Water	4.	2	0	0.00										2	0	0.00
01027 CADMIUM, TOTAL	Fresh Acute	3.9	2	0	0.00										2	0	0.00
	Drinking Water	5.	2	0	0.00										2	0	0.00
01034 CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00										1	0	0.00
01059 THALLIUM, TOTAL	Fresh Acute	1400.	2	0	0.00										2	0	0.00
	Drinking Water	2.	2	0	0.00										2	0	0.00
01067 NICKEL, TOTAL	Fresh Acute	1400.	2	0	0.00										2	0	0.00
	Drinking Water	100.	2	0	0.00										2	0	0.00
01077 SILVER, TOTAL	Fresh Acute	4.1	2	0	0.00										2	0	0.00
	Drinking Water	100.	2	0	0.00										2	0	0.00
01097 ANTIMONY, TOTAL	Fresh Acute	88.	2	0	0.00										2	0	0.00
	Drinking Water	6.	0 &	0	0.00												
01147 SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00										1	0	0.00
	Drinking Water	50.	1	0	0.00										1	0	0.00
71900 MERCURY, TOTAL	Fresh Acute	2.4	2	0	0.00										2	0	0.00
	Drinking Water	2.	2	0	0.00										2	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0068

NPS Station ID: TUZI0068
 Location: VERDE RIVER BELOW BITTER CREEK
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 15060202
 Major Basin: COLORADO RIVER
 Minor Basin: GILA RIVER
 RF1 Index: 15060202025
 RF3 Index: 15060202002510.42
 Description:
 T16N, R3E, SEC 17, YAVAPAI COUNTY, 1/2 MI BELOW CONFLUENCE OF BITTER CREEK. INTENSIVE SURVEY NO. 800401 WAS CONDUCTED IN ASSOCIATION WITH NACOG STARTING FEB, 1980.

LAT/LON: 34.776838/-112.046921

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 14.180
 RF3 Mile Point: 10.52

Agency: 21ARIZ
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): 700000000023025/VV02
 Within Park Boundary: No

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.01

Date Created: 06/28/80

On/Off RF1: ON
 On/Off RF3:

Parameter Inventory for Station: TUZI0068

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/12/80-12/09/80	12	21.	18.75	26.	9.	36.886	6.073	9.15	12.125	23.75	25.4
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/12/80-12/09/80	11	28.	23.318	32.5	10.	75.064	8.664	10.6	14.5	31.	32.4
00061 FLOW, STREAM, INSTANTANEOUS CFS	02/12/80-12/09/80	7	81.	126.143	280.	72.	6483.143	80.518	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	02/12/80-12/09/80	11	9.	16.145	54.	1.2	374.585	19.354	1.22	1.9	22.	53.6
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	02/12/80-12/09/80	10	535.	531.5	600.	445.	1666.944	40.828	450.5	515.	552.5	596.
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/12/80-05/20/80	4	430.	461.75	641.	346.	16334.25	127.806	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	02/12/80-12/09/80	11	8.2	8.182	11.2	6.1	2.174	1.474	6.16	7.	9.2	10.84
00400 PH (STANDARD UNITS)	02/12/80-12/09/80	12	8.15	8.15	8.5	7.8	0.025	0.157	7.89	8.1	8.2	8.41
00400 CONVERTED PH (STANDARD UNITS)	02/12/80-12/09/80	12	8.147	8.124	8.5	7.8	0.025	0.159	7.89	8.1	8.2	8.41
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/12/80-12/09/80	12	0.007	0.008	0.016	0.003	0.	0.003	0.004	0.006	0.008	0.013
00403 PH, LAB, STANDARD UNITS SU	02/12/80-05/20/80	3	7.9	7.7	8.3	6.9	0.52	0.721	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	02/12/80-05/20/80	3	7.9	7.32	8.3	6.9	0.736	0.858	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/12/80-05/20/80	3	0.013	0.048	0.126	0.005	0.005	0.068	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	02/12/80-05/20/80	4	182.	180.5	262.	96.	4619.667	67.968	**	**	**	**
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)	02/12/80-05/20/80	4	0.	1.	4.	0.	4.	2.	**	**	**	**
00500 RESIDUE, TOTAL (MG/L)	02/12/80-05/20/80	4	256.5	286.25	398.	234.	5942.917	77.09	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/18/80-03/18/80	1	16.	16.	16.	16.	0.	0.	**	**	**	**
00600 NITROGEN, TOTAL (MG/L AS N)	06/18/80-12/09/80	8	0.2	0.306	0.8	0.05	0.079	0.281	**	**	**	**
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	02/12/80-05/20/80	4 ##	0.005	0.229	0.9	0.005	0.2	0.448	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	02/12/80-12/09/80	12	0.185	0.303	0.9	0.05	0.085	0.291	0.05	0.05	0.575	0.825
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/18/80-12/09/80	8	0.135	0.116	0.2	0.03	0.004	0.065	**	**	**	**
00650 PHOSPHATE, TOTAL (MG/L AS PO4)	06/18/80-12/09/80	8	0.065	0.113	0.35	0.005	0.014	0.118	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	02/12/80-05/20/80	4	0.045	0.04	0.05	0.02	0.	0.014	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	02/12/80-05/20/80	4	204.5	222.	313.	166.	4023.333	63.43	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS Ca)	02/12/80-05/20/80	4	55.	53.75	65.	40.	122.917	11.087	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)	02/12/80-05/20/80	4	17.5	20.5	35.	12.	104.333	10.214	**	**	**	**
00929 SODIUM, TOTAL (MG/L AS Na)	02/12/80-05/20/80	4	14.5	16.25	23.	13.	22.25	4.717	**	**	**	**
00937 POTASSIUM, TOTAL MG/L AS K)	04/15/80-05/20/80	2	3.5	3.5	5.	2.	4.5	2.121	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	02/12/80-12/09/80	7	12.	11.143	16.	6.	11.81	3.436	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	02/12/80-12/09/80	11	43.	42.636	81.	5.	302.855	17.403	11.4	38.	46.	74.8
00951 FLUORIDE, TOTAL (MG/L AS F)	02/12/80-04/15/80	3	0.16	0.167	0.19	0.15	0.	0.021	**	**	**	**
00956 SILICA, TOTAL (MG/L AS SiO2)	05/20/80-05/20/80	1	19.3	19.3	19.3	19.3	0.	0.	**	**	**	**
01000 ARSENIC, DISSOLVED (UG/L AS AS)	04/15/80-12/09/80	10	13.	12.1	16.	6.	8.1	2.846	6.3	10.5	14.	15.8

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0068

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01002	ARSENIC, TOTAL (UG/L AS AS)	02/12/80-06/18/80	5	10.	10.4	18.	3.	31.3	5.595	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/26/80-08/26/80	1	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	04/15/80-12/09/80	10 ##	10.	11.75	35.	2.5	72.292	8.502	3.25	10.	10.	32.5
01027	CADMIUM, TOTAL (UG/L AS CD)	02/12/80-12/09/80	12 ##	10.	10.208	25.	2.5	44.839	6.696	2.5	4.375	10.	23.5
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/18/80-08/26/80	2	0.465	0.465	0.82	0.11	0.252	0.502	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/18/80-08/26/80	2	5.25	5.25	8.3	2.2	18.605	4.313	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/20/80-12/09/80	9 ##	25.	22.778	25.	5.	44.444	6.667	5.	25.	25.	25.
01034	CHROMIUM, TOTAL (UG/L AS CR)	02/12/80-12/09/80	12 ##	25.	20.208	50.	2.5	186.884	13.671	3.25	5.	25.	42.5
01040	COPPER, DISSOLVED (UG/L AS CU)	04/15/80-12/09/80	10 ##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01042	COPPER, TOTAL (UG/L AS CU)	02/12/80-12/09/80	12 ##	25.	47.5	180.	25.	2056.818	45.352	25.	25.	65.	147.
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/18/80-08/26/80	2	1965.	1965.	3800.	130.	6734450.	2595.082	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	02/12/80-06/18/80	5	770.	1062.	2190.	480.	481770.	694.097	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	04/15/80-12/09/80	10 ##	25.	48.5	260.	25.	5522.5	74.314	25.	25.	25.	236.5
01049	LEAD, DISSOLVED (UG/L AS PB)	04/15/80-12/09/80	10 ##	10.	12.3	23.	10.	24.011	4.9	10.	10.	12.5	22.7
01051	LEAD, TOTAL (UG/L AS PB)	02/12/80-06/18/80	5 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/18/80-08/26/80	2	18.55	18.55	32.	5.1	361.805	19.021	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	02/12/80-05/20/80	4 ##	57.5	72.5	150.	25.	3608.333	60.069	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/15/80-04/15/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	05/20/80-05/20/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	03/18/80-04/15/80	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	04/15/80-12/09/80	10	195.	232.4	410.	56.	13629.156	116.744	62.2	149.5	355.	406.
01092	ZINC, TOTAL (UG/L AS ZN)	02/12/80-12/09/80	12	435.	512.667	1290.	65.	122937.152	350.624	89.6	247.5	642.5	1203.
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/18/80-08/26/80	2	1205.	1205.	2100.	310.	1602050.	1265.721	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	04/15/80-05/20/80	2 ##	13.75	13.75	25.	2.5	253.125	15.91	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	02/12/80-12/09/80	12 ##	5.	4.167	10.	0.005	6.057	2.461	0.754	2.5	5.	8.5
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/18/80-08/26/80	2	3200.	3200.	5000.	1400.	6480000.	2545.584	**	**	**	**
31613	FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24HR	04/15/80-12/09/80	10	11.5	29.75	148.	0.5	2194.292	46.843	0.55	1.	35.	140.6
31613	LOG FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24	04/15/80-12/09/80	10	1.057	0.94	2.17	-0.301	0.668	0.817	-0.271	0.	1.474	2.14
31613	GM FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24H	GEOMETRIC MEAN =			8.708								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	04/15/80-12/09/80	10	37.5	61.6	160.	14.	3059.822	55.316	14.3	17.75	124.75	157.3
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	04/15/80-12/09/80	10	1.571	1.624	2.204	1.146	0.161	0.402	1.155	1.249	2.096	2.196
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			42.12								
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	02/12/80-05/20/80	4	1.4	1.513	3.	0.25	1.517	1.232	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	04/15/80-05/20/80	2 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	02/12/80-12/09/80	12 ##	0.15	0.154	0.3	0.05	0.011	0.103	0.05	0.05	0.25	0.285
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	02/12/80-05/20/80	4	19.	25.5	54.	10.	385.	19.621	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0068

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----			
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	11	2	0.18	3	0	0.00	3	0	0.00	1	1	1.00	4	1	0.25
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	11	0	0.00	3	0	0.00	3	0	0.00	1	0	0.00	4	0	0.00
00400	PH	Fresh Chronic	9.	12	0	0.00	3	0	0.00	3	0	0.00	2	0	0.00	4	0	0.00
		Other-Lo Lim.	6.5	12	0	0.00	3	0	0.00	3	0	0.00	2	0	0.00	4	0	0.00
00403	PH, LAB	Fresh Chronic	9.	3	0	0.00				2	0	0.00	1	0	0.00			
		Other-Lo Lim.	6.5	3	0	0.00				2	0	0.00	1	0	0.00			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	4	0	0.00				3	0	0.00	1	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	8	0	0.00	3	0	0.00			1	0	0.00	4	0	0.00	
00940	CHLORIDE, TOTAL IN WATER	Fresh Acute	860.	7	0	0.00	3	0	0.00	3	0	0.00	1	0	0.00			
		Drinking Water	250.	7	0	0.00	3	0	0.00	3	0	0.00	1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	11	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00	4	0	0.00
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	3	0	0.00				3	0	0.00						
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	10	0	0.00	3	0	0.00	1	0	0.00	2	0	0.00	4	0	0.00
		Drinking Water	50.	10	0	0.00	3	0	0.00	1	0	0.00	2	0	0.00	4	0	0.00
01002	ARSENIC, TOTAL	Fresh Acute	360.	5	0	0.00				3	0	0.00	2	0	0.00			
		Drinking Water	50.	5	0	0.00				3	0	0.00	2	0	0.00			
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1 &	0	0.00				1	0	0.00						
		Drinking Water	5.	1 &	0	0.00				1	0	0.00						

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: TUZI0068

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
							Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
01027	CADMIUM, TOTAL	Fresh Acute	3.9	4 &	1	0.25				2	0	0.00	2	1	0.50			
		Drinking Water	5.	4 &	1	0.25				2	0	0.00	2	1	0.50			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	9	0	0.00	3	0	0.00				2	0	0.00	4	0	0.00
01034	CHROMIUM, TOTAL	Drinking Water	100.	12	0	0.00	3	0	0.00	3	0	0.00	2	0	0.00	4	0	0.00
01040	COPPER, DISSOLVED	Fresh Acute	18.	0 &	0	0.00												
		Drinking Water	1300.	10	0	0.00	3	0	0.00	1	0	0.00	2	0	0.00	4	0	0.00
01042	COPPER, TOTAL	Fresh Acute	18.	4 &	4	1.00				2	2	1.00	2	2	1.00			
		Drinking Water	1300.	12	0	0.00	3	0	0.00	3	0	0.00	2	0	0.00	4	0	0.00
01049	LEAD, DISSOLVED	Fresh Acute	82.	10	0	0.00	3	0	0.00	1	0	0.00	2	0	0.00	4	0	0.00
		Drinking Water	15.	10	2	0.20	3	0	0.00	1	0	0.00	2	1	0.50	4	1	0.25
01051	LEAD, TOTAL	Fresh Acute	82.	5	0	0.00				3	0	0.00	2	0	0.00			
		Drinking Water	15.	5	0	0.00				3	0	0.00	2	0	0.00			
01075	SILVER, DISSOLVED	Fresh Acute	4.1	0 &	0	0.00												
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	0 &	0	0.00												
		Drinking Water	100.	2	0	0.00				2	0	0.00						
01090	ZINC, DISSOLVED	Fresh Acute	120.	10	8	0.80	3	3	1.00	1	1	1.00	2	2	1.00	4	2	0.50
		Drinking Water	5000.	10	0	0.00	3	0	0.00	1	0	0.00	2	0	0.00	4	0	0.00
01092	ZINC, TOTAL	Fresh Acute	120.	12	11	0.92	3	3	1.00	3	3	1.00	2	2	1.00	4	3	0.75
		Drinking Water	5000.	12	0	0.00	3	0	0.00	3	0	0.00	2	0	0.00	4	0	0.00
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1 &	0	0.00							1	0	0.00			
		Drinking Water	50.	2	0	0.00				1	0	0.00	1	0	0.00			
01147	SELENIUM, TOTAL	Fresh Acute	20.	12	0	0.00	3	0	0.00	3	0	0.00	2	0	0.00	4	0	0.00
		Drinking Water	50.	12	0	0.00	3	0	0.00	3	0	0.00	2	0	0.00	4	0	0.00
31613	FECAL COLIFORM, MEMBRANE FILTER, AGAR	Other-Hi Lim.	200.	10	0	0.00	3	0	0.00	1	0	0.00	2	0	0.00	4	0	0.00
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	4	0	0.00				3	0	0.00	1	0	0.00			
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	2	0	0.00				1	0	0.00	1	0	0.00			
		Drinking Water	2.	2	0	0.00				1	0	0.00	1	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	12	0	0.00	3	0	0.00	3	0	0.00	2	0	0.00	4	0	0.00
		Drinking Water	2.	12	0	0.00	3	0	0.00	3	0	0.00	2	0	0.00	4	0	0.00
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	4	1	0.25				3	0	0.00	1	1	1.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0069

NPS Station ID: TUZI0069 LAT/LON: 34.776948/-112.048615
 Location: BITTER CK ABV VERDE RV CONFLUENCE CLARKDALE
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 15060202 Depth of Water: 0
 Major Basin: COLORADO RIVER Elevation: 0
 Minor Basin: GILA/SALT/VERDE
 RF1 Index: 15060202025 RF1 Mile Point: 0.000
 RF3 Index: 15060202002521.56 RF3 Mile Point: 22.12
 Description:

Agency: 21ARIZ
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): 702600000000006/VR-BTC-1A /A16-3-20BDD
 Within Park Boundary: No
 Aquifer:
 Water Body Id: AZ15060202-025
 ECO Region:
 Distance from RF1: 3.00
 Distance from RF3: 0.03

Date Created: 08/05/89

On/Off RF1: OFF
 On/Off RF3:

SITE IS LOCATED APPROX. 200 FT. UPSTREAM OF VERDE RIVER CONFLUENCE AT END OF RIVER ROAD IN CLARKDALE. SITE WAS MOVED UPSTREAM 0.25 MILES
 TO ADEQ STA.#7026000000000095 WHEN THIS SITE PROVED TO BE INTERMITTENT. T16N R3E SEC. 19 BAC, ELEV - 3470, CLARKDALE 7.5' TOPO.
 REFERENCE FILE SWMS-175.100.120.

Parameter Inventory for Station: TUZI0069

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004 STREAM WIDTH (FEET)	02/25/88-10/25/88	4	2.	2.	2.	2.	0.	0.	**	**	**	**
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/25/88-10/25/88	4	25.75	24.5	27.	19.5	11.833	3.44	**	**	**	**
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/25/88-10/25/88	4	28.5	28.5	35.	22.	32.333	5.686	**	**	**	**
00055 VELOCITY, STREAM FT/SEC	02/25/88-10/25/88	4	0.35	0.275	0.4	0.	0.036	0.189	**	**	**	**
00064 DEPTH OF STREAM, MEAN (FT)	02/25/88-10/25/88	4	0.35	0.375	0.6	0.2	0.043	0.206	**	**	**	**
00094 SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	02/25/88-10/25/88	4	986.	924.25	1048.	677.	28794.917	169.691	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/25/88-10/25/88	4	1013.	1020.5	1110.	946.	4750.333	68.923	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	02/25/88-10/25/88	4	8.2	8.	8.4	7.2	0.3	0.548	**	**	**	**
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION %	02/25/88-10/25/88	4	108.35	110.35	124.	100.7	132.817	11.525	**	**	**	**
00403 PH, LAB, STANDARD UNITS SU	02/25/88-10/25/88	4	8.25	8.05	8.5	7.2	0.337	0.58	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	02/25/88-10/25/88	4	8.247	7.712	8.5	7.2	0.489	0.699	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/25/88-10/25/88	4	0.006	0.019	0.063	0.003	0.001	0.029	**	**	**	**
00406 PH, FIELD, STANDARD UNITS SU	02/25/88-10/25/88	4	8.38	8.403	8.55	8.3	0.013	0.116	**	**	**	**
00406 CONVERTED PH, FIELD, STANDARD UNITS	02/25/88-10/25/88	4	8.376	8.391	8.55	8.3	0.014	0.117	**	**	**	**
00406 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/25/88-10/25/88	4	0.004	0.004	0.005	0.003	0.	0.001	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	02/25/88-10/25/88	4	167.	164.75	175.	150.	134.917	11.615	**	**	**	**
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)	02/25/88-10/25/88	4	1.	2.	5.	1.	4.	2.	**	**	**	**
00440 BICARBONATE ION (MG/L AS HCO3)	02/25/88-10/25/88	4	197.5	198.	214.	183.	162.	12.728	**	**	**	**
00445 CARBONATE ION (MG/L AS CO3)	02/25/88-10/25/88	4 ##	0.5	1.875	6.	0.5	7.563	2.75	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/25/88-10/25/88	4	2.	2.5	4.	2.	1.	1.	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/25/88-10/25/88	4 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	02/25/88-10/25/88	4 ##	0.123	0.13	0.25	0.025	0.015	0.122	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL I DET. (MG/L AS N)	02/25/88-10/25/88	4	0.265	0.35	0.82	0.05	0.117	0.342	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	02/25/88-10/25/88	4 ##	0.025	0.054	0.14	0.025	0.003	0.058	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	02/25/88-10/25/88	4	484.	502.5	582.	460.	3107.667	55.746	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS Ca)	02/25/88-10/25/88	4	82.95	86.1	100.	78.5	91.153	9.547	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS Mg)	02/25/88-10/25/88	4	66.95	66.8	73.5	59.8	31.913	5.649	**	**	**	**
00929 SODIUM, TOTAL (MG/L AS Na)	02/25/88-10/25/88	4	44.7	44.25	46.8	40.8	7.397	2.72	**	**	**	**
00937 POTASSIUM, TOTAL MG/L AS K)	02/25/88-10/25/88	4	2.75	2.74	3.1	2.36	0.093	0.305	**	**	**	**
00940 CHLORIDE, TOTAL IN WATER MG/L	02/25/88-10/25/88	4	42.	42.5	45.	41.	3.	1.732	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	02/25/88-10/25/88	4	294.5	259.5	412.	37.	25159.	158.616	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0069

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00951	FLUORIDE, TOTAL (MG/L AS F)	02/25/88-10/25/88	4	0.325	0.278	0.36	0.1	0.015	0.121	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	02/25/88-10/25/88	4###	10.	8.75	10.	5.	6.25	2.5	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	02/25/88-10/25/88	4###	50.	50.	50.	50.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	05/26/88-10/25/88	3###	0.25	1.	2.5	0.25	1.688	1.299	**	**	**	**
01022	BORON, TOTAL (UG/L AS B)	02/25/88-10/25/88	4###	180.	165.	250.	50.	10233.333	101.16	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	02/25/88-10/25/88	4###	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	02/25/88-10/25/88	4###	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	02/25/88-10/25/88	4###	5.	5.	5.	5.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	02/25/88-10/25/88	4###	50.	50.	50.	50.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	02/25/88-10/25/88	4###	7.5	7.5	10.	5.	8.333	2.887	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	02/25/88-10/25/88	4###	25.	25.	25.	25.	0.	0.	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	05/26/88-10/25/88	3###	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	05/26/88-10/25/88	3###	25.	25.	25.	25.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	02/25/88-10/25/88	4###	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	02/25/88-10/25/88	4###	25.	25.	25.	25.	0.	0.	**	**	**	**
01097	ANTIMONY, TOTAL (UG/L AS SB)	05/26/88-10/25/88	3###	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	02/25/88-10/25/88	4###	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	02/25/88-10/25/88	4	679.	692.5	758.	654.	2056.333	45.347	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	02/25/88-10/25/88	4###	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	02/25/88-10/25/88	4	0.5	0.8	1.9	0.3	0.553	0.744	**	**	**	**

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EPA Water Quality Criteria Analysis for Station: TUZI0069

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	4	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00
00403	PH, LAB	Fresh Chronic	9.	4	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00
		Other-Lo Lim.	6.5	4	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00
00406	PH, FIELD	Fresh Chronic	9.	4	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00
		Other-Lo Lim.	6.5	4	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	4	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	4	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00
		Drinking Water	250.	4	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	4	3	0.75	1	1	1.00	1	1	1.00	1	1	1.00	1	0	0.00
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	4	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00
01002	ARSENIC, TOTAL	Fresh Acute	360.	4	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00
		Drinking Water	50.	4	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00
01007	BARIUM, TOTAL	Drinking Water	2000.	4	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00
		Drinking Water	4.	3	0	0.00	1	0	0.00				1	0	0.00	1	0	0.00
01027	CADMIUM, TOTAL	Fresh Acute	3.9	4	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00
		Drinking Water	5.	4	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00
01034	CHROMIUM, TOTAL	Drinking Water	100.	4	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00
01042	COPPER, TOTAL	Fresh Acute	18.	4	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00
		Drinking Water	1300.	4	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00
01051	LEAD, TOTAL	Fresh Acute	82.	4	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00
		Drinking Water	15.	4	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00
01059	THALLIUM, TOTAL	Fresh Acute	1400.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00
		Drinking Water	2.	0 &	0	0.00							1	0	0.00	1	0	0.00
01067	NICKEL, TOTAL	Fresh Acute	1400.	3	0	0.00	1	0	0.00				1	0	0.00	1	0	0.00
		Drinking Water	100.	3	0	0.00	1	0	0.00				1	0	0.00	1	0	0.00
01077	SILVER, TOTAL	Fresh Acute	4.1	4	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00
		Drinking Water	100.	4	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00
01092	ZINC, TOTAL	Fresh Acute	120.	4	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00
		Drinking Water	5000.	4	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00
01097	ANTIMONY, TOTAL	Fresh Acute	88.	3	0	0.00	1	0	0.00				1	0	0.00	1	0	0.00
		Drinking Water	6.	3	0	0.00	1	0	0.00				1	0	0.00	1	0	0.00
01147	SELENIUM, TOTAL	Fresh Acute	20.	4	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00
		Drinking Water	50.	4	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: TUZI0069

Parameter	Std. Type	Std. Value	Total	Exceed	Prop.	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
			Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
71900	MERCURY, TOTAL																
	Fresh Acute	2.4	4	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00
	Drinking Water	2.	4	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00
82079	TURBIDITY, LAB																
	Other-Hi Lim.	50.	4	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0070

NPS Station ID: TUZI0070
 Location: BITTER CREEK NEAR THE VERDE RIVER
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 15060202
 Major Basin: COLORADO RIVER
 Minor Basin: GILA RIVER
 RF1 Index: 15060202025
 RF3 Index: 15060202002513.59
 Description:
 T16N, R3E, SEC 17, YAVAPAI COUNTY, 50 M ABOVE CONFLUENCE WITH VERDE R. INTENSIVE SURVEY NO. 800401 WAS CONDUCTED IN ASSOCIATION WITH NACOG
 STARTING FEB, 1980.

LAT/LON: 34.777281/-112.048227

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 14.330
 RF3 Mile Point: 14.03

Agency: 21ARIZ
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): 702600100000001/VV03
 Within Park Boundary: No

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.01

Date Created: 06/28/80

On/Off RF1: OFF
 On/Off RF3:

Parameter Inventory for Station: TUZI0070

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/12/80-12/09/80	12	21.	20.167	27.	10.	31.468	5.61	10.6	15.45	25.	26.7
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/12/80-12/09/80	12	26.	23.75	34.5	5.	76.523	8.748	7.25	20.	30.25	34.35
00061 FLOW, STREAM, INSTANTANEOUS CFS	03/18/80-12/09/80	8	2.	2.5	5.	1.	2.857	1.69	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	02/12/80-12/09/80	12	64.	105.167	280.	15.	7994.515	89.412	18.	42.	150.	277.
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	02/12/80-12/09/80	10	1225.	1223.1	1600.	940.	39284.989	198.204	946.	1075.	1338.25	1585.
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/12/80-05/20/80	4	1634.5	1659.25	1923.	1445.	48417.583	220.04	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	02/12/80-12/09/80	11	7.8	8.145	10.5	6.	2.379	1.542	6.12	6.8	9.6	10.48
00400 PH (STANDARD UNITS)	02/12/80-12/09/80	12	8.12	8.074	8.5	7.35	0.087	0.295	7.455	8.025	8.2	8.44
00400 CONVERTED PH (STANDARD UNITS)	02/12/80-12/09/80	12	8.12	7.956	8.5	7.35	0.102	0.32	7.455	8.025	8.2	8.44
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/12/80-12/09/80	12	0.008	0.011	0.045	0.003	0.	0.011	0.004	0.006	0.009	0.037
00403 PH, LAB, STANDARD UNITS SU	02/12/80-05/20/80	4	7.55	7.225	8.2	5.6	1.283	1.132	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	02/12/80-05/20/80	4	7.525	6.191	8.2	5.6	2.709	1.646	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/12/80-05/20/80	4	0.03	0.644	2.512	0.006	1.55	1.245	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	02/12/80-05/20/80	4	138.	127.	194.	38.	4228.	65.023	**	**	**	**
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)	02/12/80-05/20/80	4	0.	0.	0.	0.	0.	0.	**	**	**	**
00500 RESIDUE, TOTAL (MG/L)	02/12/80-05/20/80	4	1328.5	1389.75	1744.	1158.	68442.917	261.616	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/18/80-03/18/80	1	180.	180.	180.	180.	0.	0.	**	**	**	**
00600 NITROGEN, TOTAL (MG/L AS N)	06/17/80-12/09/80	8	1.25	1.863	5.8	0.9	2.62	1.619	**	**	**	**
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	02/12/80-05/20/80	4	0.032	0.032	0.06	0.005	0.001	0.027	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	02/12/80-12/09/80	11	0.2	0.315	0.8	0.05	0.088	0.297	0.05	0.05	0.7	0.79
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/17/80-12/09/80	8	1.16	1.745	5.45	0.92	2.31	1.52	**	**	**	**
00650 PHOSPHATE, TOTAL (MG/L AS PO4)	06/17/80-12/09/80	8	0.055	0.054	0.13	0.005	0.002	0.048	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	02/12/80-05/20/80	4 ##	0.013	0.013	0.02	0.005	0.	0.009	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	02/12/80-05/20/80	4	1126.5	1123.	1410.	829.	98444.667	313.759	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS Ca)	02/12/80-05/20/80	4	162.5	175.	225.	150.	1250.	35.355	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)	02/12/80-05/20/80	4	110.	123.75	175.	100.	1256.25	35.444	**	**	**	**
00929 SODIUM, TOTAL (MG/L AS Na)	02/12/80-05/20/80	4	31.5	31.25	34.	28.	10.25	3.202	**	**	**	**
00937 POTASSIUM, TOTAL MG/L AS K)	04/15/80-05/20/80	2	4.	4.	5.	3.	2.	1.414	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	02/12/80-12/09/80	7	32.	33.	40.	30.	11.667	3.416	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	02/12/80-12/09/80	12	450.	504.167	1050.	25.	72067.424	268.454	107.5	365.	652.5	997.5
00951 FLUORIDE, TOTAL (MG/L AS F)	03/18/80-04/15/80	2	0.465	0.465	0.49	0.44	0.001	0.035	**	**	**	**
00956 SILICA, TOTAL (MG/L AS SiO2)	05/20/80-05/20/80	1	23.5	23.5	23.5	23.5	0.	0.	**	**	**	**
01000 ARSENIC, DISSOLVED (UG/L AS AS)	04/15/80-12/09/80	10 ##	5.	4.5	5.	2.5	1.111	1.054	2.5	4.375	5.	5.

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0070

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01002	ARSENIC, TOTAL (UG/L AS AS)	02/12/80-06/17/80	5	9.	10.8	20.	5.	35.2	5.933	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/26/80-08/26/80	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	04/15/80-12/09/80	10 ##	10.	9.85	16.	2.5	10.225	3.198	3.25	10.	10.	15.4
01027	CADMIUM, TOTAL (UG/L AS CD)	02/12/80-12/09/80	11 ##	10.	12.136	41.	2.5	127.655	11.298	2.5	2.5	11.	37.6
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/17/80-08/26/80	2 ##	1.515	1.515	2.5	0.53	1.94	1.393	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/17/80-08/26/80	2	4.95	4.95	6.5	3.4	4.805	2.192	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/20/80-12/09/80	9 ##	25.	20.278	25.	2.5	88.194	9.391	2.5	15.	25.	25.
01034	CHROMIUM, TOTAL (UG/L AS CR)	02/12/80-12/09/80	12 ##	25.	18.333	25.	5.	96.97	9.847	5.	5.	25.	25.
01040	COPPER, DISSOLVED (UG/L AS CU)	04/15/80-12/09/80	10 ##	25.	27.5	50.	25.	62.5	7.906	25.	25.	25.	47.5
01042	COPPER, TOTAL (UG/L AS CU)	02/12/80-12/09/80	12	400.	1696.083	6900.	83.	4702654.992	2168.561	103.1	260.	3350.	6030.
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/17/80-08/26/80	2	855.4	855.4	1700.	10.8	1426698.32	1194.445	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	02/12/80-06/17/80	5	30500.	22154.	36500.	2070.	222069080.	14901.982	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	04/15/80-12/09/80	10 ##	25.	199.	1000.	25.	123082.222	350.831	25.	25.	235.	970.
01049	LEAD, DISSOLVED (UG/L AS PB)	04/15/80-12/09/80	10 ##	10.	10.	10.	10.	0.	0.	10.	10.	10.	10.
01051	LEAD, TOTAL (UG/L AS PB)	02/12/80-06/17/80	5 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/17/80-08/26/80	2 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	02/12/80-05/20/80	4	1745.	1787.5	2460.	1200.	351025.	592.474	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/15/80-04/15/80	1	1900.	1900.	1900.	1900.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	05/20/80-05/20/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	03/18/80-03/18/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	04/15/80-12/09/80	10	800.	11815.7	110000.	7.	1191049409.567	34511.584	11.2	50.5	2365.	99280.
01092	ZINC, TOTAL (UG/L AS ZN)	02/12/80-12/09/80	12	14000.	33419.167	250000.	830.	4768936408.333	69057.486	1001.	3300.	23175.	186400.
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/17/80-08/26/80	2	50800.	50800.	90000.	11600.	3073280000.	55437.172	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	04/15/80-05/20/80	2	10.	10.	10.	10.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	02/12/80-12/09/80	12 ##	5.	6.083	10.	5.	4.083	2.021	5.	5.	7.25	10.
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/17/80-08/26/80	2	10750.	10750.	18000.	3500.	105125000.	10253.048	**	**	**	**
31613	FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24HR	05/20/80-12/09/80	9	0.	0.278	2.	0.	0.444	0.667	0.	0.	0.25	2.
31613	LOG FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24	05/20/80-12/09/80	9	0.	0.	0.301	-0.301	0.023	0.151	0.	0.	-0.151	0.301
31613	GEOMETRIC MEAN =				1.								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	05/20/80-12/09/80	10	174.	203.1	436.	34.	25187.211	158.705	34.	53.5	370.	432.4
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	05/20/80-12/09/80	10	2.237	2.138	2.639	1.531	0.196	0.443	1.531	1.716	2.568	2.636
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	05/20/80-12/09/80			137.347								
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	02/12/80-05/20/80	4	13.5	19.25	42.	8.	256.917	16.029	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	04/15/80-05/20/80	2 ##	1.375	1.375	2.5	0.25	2.531	1.591	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	02/12/80-12/09/80	12 ##	0.15	0.563	2.5	0.05	0.853	0.923	0.05	0.05	0.587	2.5
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	02/12/80-05/20/80	3	160.	183.333	270.	120.	6033.333	77.675	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0070

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----			
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	12	9	0.75	3	2	0.67	3	3	1.00	2	2	1.00	4	2	0.50
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	11	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00	4	0	0.00
00400	PH	Fresh Chronic	9.	12	0	0.00	3	0	0.00	3	0	0.00	2	0	0.00	4	0	0.00
		Other-Lo Lim.	6.5	12	0	0.00	3	0	0.00	3	0	0.00	2	0	0.00	4	0	0.00
00403	PH, LAB	Fresh Chronic	9.	4	0	0.00				3	0	0.00	1	0	0.00			
		Other-Lo Lim.	6.5	4	1	0.25				3	1	0.33	1	0	0.00			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	4	0	0.00				3	0	0.00	1	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	8	0	0.00	3	0	0.00			1	0	0.00	4	0	0.00	
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	7	0	0.00	3	0	0.00	3	0	0.00	1	0	0.00			
		Drinking Water	250.	7	0	0.00	3	0	0.00	3	0	0.00	1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	12	11	0.92	3	3	1.00	3	2	0.67	2	2	1.00	4	4	1.00
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	2	0	0.00				2	0	0.00						
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	10	0	0.00	3	0	0.00	1	0	0.00	2	0	0.00	4	0	0.00
		Drinking Water	50.	10	0	0.00	3	0	0.00	1	0	0.00	2	0	0.00	4	0	0.00
01002	ARSENIC, TOTAL	Fresh Acute	360.	5	0	0.00				3	0	0.00	2	0	0.00			
		Drinking Water	50.	5	0	0.00				3	0	0.00	2	0	0.00			
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	2 &	1	0.50				1	0	0.00	1	1	1.00			
		Drinking Water	5.	2 &	1	0.50				1	0	0.00	1	1	1.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: TUZI0070

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
01027	CADMIUM, TOTAL	Fresh Acute	3.9	6 &	3	0.50	1	1	1.00	3	1	0.33	2	1	0.50		
		Drinking Water	5.	6 &	3	0.50	1	1	1.00	3	1	0.33	2	1	0.50		
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	9	0	0.00	3	0	0.00				2	0	0.00	4	0
01034	CHROMIUM, TOTAL	Drinking Water	100.	12	0	0.00	3	0	0.00	3	0	0.00	2	0	0.00	4	0
01040	COPPER, DISSOLVED	Fresh Acute	18.	1 &	1	1.00				1	1	1.00					
		Drinking Water	1300.	10	0	0.00	3	0	0.00	1	0	0.00	2	0	0.00	4	0
01042	COPPER, TOTAL	Fresh Acute	18.	12	12	1.00	3	3	1.00	3	3	1.00	2	2	1.00	4	4
		Drinking Water	1300.	12	4	0.33	3	0	0.00	3	3	1.00	2	1	0.50	4	0
01049	LEAD, DISSOLVED	Fresh Acute	82.	10	0	0.00	3	0	0.00	1	0	0.00	2	0	0.00	4	0
		Drinking Water	15.	10	0	0.00	3	0	0.00	1	0	0.00	2	0	0.00	4	0
01051	LEAD, TOTAL	Fresh Acute	82.	5	0	0.00				3	0	0.00	2	0	0.00		
		Drinking Water	15.	5	0	0.00				3	0	0.00	2	0	0.00		
01075	SILVER, DISSOLVED	Fresh Acute	4.1	0 &	0	0.00											
		Drinking Water	100.	1	0	0.00							1	0	0.00		
01077	SILVER, TOTAL	Fresh Acute	4.1	0 &	0	0.00											
		Drinking Water	100.	1	0	0.00				1	0	0.00					
01090	ZINC, DISSOLVED	Fresh Acute	120.	10	7	0.70	3	3	1.00	1	1	1.00	2	1	0.50	4	2
		Drinking Water	5000.	10	1	0.10	3	0	0.00	1	1	1.00	2	0	0.00	4	0
01092	ZINC, TOTAL	Fresh Acute	120.	12	12	1.00	3	3	1.00	3	3	1.00	2	2	1.00	4	4
		Drinking Water	5000.	12	9	0.75	3	3	1.00	3	3	1.00	2	2	1.00	4	1
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	2	0	0.00				1	0	0.00	1	0	0.00		
		Drinking Water	50.	2	0	0.00				1	0	0.00	1	0	0.00		
01147	SELENIUM, TOTAL	Fresh Acute	20.	12	0	0.00	3	0	0.00	3	0	0.00	2	0	0.00	4	0
		Drinking Water	50.	12	0	0.00	3	0	0.00	3	0	0.00	2	0	0.00	4	0
31613	FECAL COLIFORM, MEMBRANE FILTER, AGAR	Other-Hi Lim.	200.	9	0	0.00	3	0	0.00				2	0	0.00	4	0
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	4	0	0.00				3	0	0.00	1	0	0.00		
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	1 &	0	0.00				1	0	0.00					
		Drinking Water	2.	1 &	0	0.00				1	0	0.00					
71900	MERCURY, TOTAL	Fresh Acute	2.4	10 &	0	0.00	3	0	0.00	1	0	0.00	2	0	0.00	4	0
		Drinking Water	2.	10 &	0	0.00	3	0	0.00	1	0	0.00	2	0	0.00	4	0
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	3	3	1.00				2	2	1.00	1	1	1.00		

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0071

NPS Station ID: TUZI0071
 Location: VERDE RIVER ABOVE BITTER CREEK
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 15060202
 Major Basin: COLORADO RIVER
 Minor Basin: GILA**SALT**VERDE
 RF1 Index: 15060202025
 RF3 Index: 15060202002511.19
 Description:

LAT/LON: 34.778115/-112.048227

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 14.430
 RF3 Mile Point: 11.45

Agency: 21ARIZ
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): 700000000022100/VR 013.5 /VV01
 Within Park Boundary: No

Date Created: / /

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.13

On/Off RF1: ON
 On/Off RF3:

LAT 34 46' 41.2", LONG 112 02'53.6", SE1/4,SE1/4, SEC 17, T16N, R3E, YAVAPAI CO, IN CLARKDALE, AZ, 30 M (33 YDS) UPSTREAM FROM BITTER CREEK,
 ON RIGHT BANK, 230 KM (142.9 MI) UPSTREAM FROM CONFLUENCE WITH SALT RIVER. INTENSIVE SURVEY #800401 WAS CONDUCTED IN ASSOCIATION WITH NACOG
 STARTING FEB, 1980.

Parameter Inventory for Station: TUZI0071

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/09/73-12/09/80	16	20.	20.063	30.5	9.	40.263	6.345	9.35	15.75	24.375	29.8
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)	05/20/80-05/20/80	1	68.	68.	68.	68.	0.	0.	**	**	**	**
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/12/80-12/09/80	11	24.	22.364	33.	5.	80.705	8.984	6.7	14.	29.	33.
00061 FLOW, STREAM, INSTANTANEOUS CFS	02/12/80-12/09/80	9	76.	110.222	271.	61.	5187.694	72.026	61.	69.	146.	271.
00070 TURBIDITY, (JACKSON CANDLE UNITS)	08/09/73-08/22/73	3	4.	6.	10.	4.	12.	3.464	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	02/12/80-12/09/80	12	5.	10.475	58.	0.3	287.215	16.947	0.36	1.3	7.675	49.6
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	02/12/80-12/09/80	10	460.	463.	520.	405.	1451.111	38.093	405.5	440.	496.25	519.5
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/09/73-05/20/80	8	350.5	367.5	510.	267.	5383.429	73.372	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	08/09/73-12/09/80	16	8.2	8.362	11.8	4.8	3.117	1.766	5.92	7.1	9.5	11.03
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION %	03/18/80-05/20/80	2	116.6	116.6	128.3	104.9	273.78	16.546	**	**	**	**
00400 PH (STANDARD UNITS)	02/12/80-12/09/80	13	8.1	8.208	8.9	7.8	0.116	0.34	7.8	8.05	8.25	8.9
00400 CONVERTED PH (STANDARD UNITS)	02/12/80-12/09/80	13	8.1	8.114	8.9	7.8	0.125	0.354	7.8	8.05	8.25	8.9
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/12/80-12/09/80	13	0.008	0.008	0.016	0.001	0.	0.004	0.001	0.006	0.009	0.016
00403 PH, LAB, STANDARD UNITS SU	08/09/73-05/20/80	8	8.35	8.15	8.6	6.8	0.349	0.59	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	08/09/73-05/20/80	8	8.347	7.612	8.6	6.8	0.679	0.824	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/09/73-05/20/80	8	0.004	0.024	0.158	0.003	0.003	0.054	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	08/09/73-05/20/80	8	179.	179.25	256.	98.	2131.357	46.167	**	**	**	**
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)	02/12/80-05/20/80	5	0.	0.8	4.	0.	3.2	1.789	**	**	**	**
00500 RESIDUE, TOTAL (MG/L)	02/12/80-05/20/80	5	209.	225.4	276.	175.	1753.3	41.872	**	**	**	**
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/09/73-08/22/73	3	229.	220.	229.	202.	243.	15.588	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/18/80-03/18/80	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00600 NITROGEN, TOTAL (MG/L AS N)	06/17/80-12/09/80	9	0.4	0.494	1.2	0.05	0.19	0.436	0.05	0.1	0.9	1.2
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	08/22/73-05/20/80	6 ##	0.005	0.088	0.5	0.005	0.041	0.202	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/22/73-12/09/80	15	0.2	0.338	1.1	0.005	0.13	0.361	0.032	0.05	0.5	0.98
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/17/80-12/09/80	9	0.17	0.224	0.63	0.03	0.034	0.185	0.03	0.11	0.325	0.63
00650 PHOSPHATE, TOTAL (MG/L AS PO4)	08/22/73-12/09/80	10	0.085	0.099	0.34	0.005	0.009	0.097	0.005	0.039	0.115	0.322
00665 PHOSPHORUS, TOTAL (MG/L AS P)	02/12/80-05/20/80	5	0.04	0.044	0.06	0.03	0.	0.011	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	08/09/73-05/20/80	8	155.	162.625	224.	124.	905.411	30.09	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	08/09/73-08/05/80	4	41.	41.75	56.	29.	132.917	11.529	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS Ca)	02/12/80-05/20/80	5	40.	45.	65.	30.	175.	13.229	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	08/09/73-08/05/80	4	16.	16.25	24.	9.	43.583	6.602	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0071

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00927	MAGNESIUM, TOTAL (MG/L AS MG)	02/12/80-05/20/80	5	14.	13.8	24.	3.	57.2	7.563	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	02/12/80-05/20/80	5	15.	15.4	22.	10.	20.3	4.506	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/09/73-08/05/80	4	24.	24.	27.	21.	6.667	2.582	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	04/15/80-05/20/80	3	3.	3.333	5.	2.	2.333	1.528	**	**	**
00940	CHLORIDE, TOTAL IN WATER MG/L	08/09/73-12/09/80	11	13.	11.091	16.	5.	15.091	3.885	5.2	6.	14.
00945	SULFATE, TOTAL (MG/L AS SO4)	08/09/73-12/09/80	17	9.	30.941	375.	7.	7866.809	88.695	7.	7.5	10.
00946	SULFATE, DISSOLVED (MG/L AS SO4)	08/05/80-08/05/80	1	9.	9.	9.	9.	0.	0.	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	03/18/80-04/15/80	3	0.16	6.107	18.	0.16	106.089	10.3	**	**	**
00956	SILICA, TOTAL (MG/L AS SI02)	05/20/80-05/20/80	1	17.1	17.1	17.1	17.1	0.	0.	**	**	**
00966	MICA IN DRILLING FLUIDS LB/BARREL	08/05/80-08/05/80	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**
00997	ARSENIC, INORGANIC TOT (UG/L AS AS)	08/22/73-08/22/73	1	10.	10.	10.	10.	0.	0.	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	04/15/80-12/09/80	11	11.	10.818	17.	5.	13.564	3.683	5.	8.	13.
01002	ARSENIC, TOTAL (UG/L AS AS)	02/12/80-12/09/80	8	9.	9.25	16.	3.	15.929	3.991	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	04/15/80-12/09/80	11 ##	10.	7.955	10.	2.5	12.273	3.503	2.5	2.5	10.
01027	CADMIUM, TOTAL (UG/L AS CD)	08/22/73-12/09/80	15 ##	10.	8.333	25.	2.5	32.738	5.722	2.5	2.5	10.
01028	CADMIUM, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	06/17/80-08/26/80	2 ##	0.195	0.195	0.25	0.14	0.006	0.078	**	**	**
01029	CHROMIUM, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	06/17/80-08/26/80	2	2.5	2.5	3.	2.	0.5	0.707	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/20/80-12/09/80	10 ##	25.	20.75	25.	2.5	80.625	8.979	2.75	20.	25.
01034	CHROMIUM, TOTAL (UG/L AS CR)	08/22/73-12/09/80	15 ##	25.	18.333	25.	5.	95.238	9.759	5.	5.	25.
01040	COPPER, DISSOLVED (UG/L AS CU)	04/15/80-12/09/80	11 ##	25.	28.182	60.	25.	111.364	10.553	25.	25.	25.
01042	COPPER, TOTAL (UG/L AS CU)	08/22/73-12/09/80	15 ##	25.	25.	25.	25.	0.	0.	25.	25.	25.
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/17/80-08/26/80	2	6.8	6.8	10.8	2.8	32.	5.657	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	08/22/73-06/17/80	8	125.	144.375	430.	25.	18788.839	137.072	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	04/15/80-12/09/80	11 ##	25.	60.909	240.	25.	5669.091	75.293	25.	25.	50.
01049	LEAD, DISSOLVED (UG/L AS PB)	04/15/80-12/09/80	11 ##	10.	10.	10.	10.	0.	0.	10.	10.	10.
01051	LEAD, TOTAL (UG/L AS PB)	08/22/73-06/17/80	8 ##	10.	11.875	25.	10.	28.125	5.303	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/17/80-08/26/80	2	3.	3.	3.5	2.5	0.5	0.707	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	02/12/80-05/20/80	5 ##	25.	36.	80.	25.	605.	24.597	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/15/80-08/05/80	2 ##	15.	15.	25.	5.	200.	14.142	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	05/20/80-08/05/80	2 ##	5.	5.	5.	5.	0.	0.	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	08/22/73-04/15/80	3 ##	5.	5.	5.	5.	0.	0.	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	04/15/80-12/09/80	11 ##	25.	70.727	200.	25.	4058.818	63.709	25.	25.	140.
01092	ZINC, TOTAL (UG/L AS ZN)	08/22/73-12/09/80	15 ##	25.	68.5	650.	2.5	26014.107	161.289	16.	25.	25.
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/17/80-08/26/80	2	31.25	31.25	50.	12.5	703.125	26.517	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/18/80-08/05/80	4 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	02/12/80-12/09/80	14 ##	5.	4.464	10.	2.5	4.018	2.004	2.5	2.5	5.
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/17/80-08/26/80	2	1750.	1750.	2000.	1500.	125000.	353.553	**	**	**
31613	FECAL COLIFORM, MEMBR FILTER, M-FC AGAR, 44.5C, 24HR	04/15/80-12/09/80	11	12.	15.227	42.	0.5	174.468	13.209	1.	4.	23.
31613	LOG FECAL COLIFORM, MEMBR FILTER, M-FC AGAR, 44.5C, 24	04/15/80-12/09/80	11	1.079	0.957	1.623	-0.301	0.311	0.558	-0.145	0.602	1.362
31613	GM FECAL COLIFORM, MEMBR FILTER, M-FC AGAR, 44.5C, 24H	GEOMETRIC MEAN =			9.057							
31673	FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	04/15/80-12/09/80	11	57.	56.273	148.	4.	2361.018	48.59	4.4	14.	97.
31673	LOG FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	04/15/80-12/09/80	11	1.756	1.521	2.17	0.602	0.287	0.536	0.637	1.146	1.987
31673	GM FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	GEOMETRIC MEAN =			33.205							
71850	NITRATE NITROGEN, TOTAL (MG/L AS NO3)	08/09/73-05/20/80	8 ##	0.5	2.95	19.	0.25	42.374	6.509	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/05/80-08/05/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	04/15/80-08/05/80	2 ##	1.375	1.375	2.5	0.25	2.531	1.591	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	08/22/73-12/09/80	15 ##	0.2	0.163	0.4	0.05	0.014	0.117	0.05	0.05	0.25
82079	TURBIDITY, LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	02/12/80-05/20/80	4	6.	11.75	30.	5.	148.25	12.176	**	**	**
82233	SILICON (SI) TOTAL IN WATER MG/L AS (SIO2)	05/20/80-05/20/80	1	8.	8.	8.	8.	0.	0.	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0071

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	3	0	0.00									3	0	0.00
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	12	1	0.08	3	0	0.00	3	0	0.00	2	0	4	1	0.25
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	16	0	0.00	3	0	0.00	4	0	0.00	2	0	7	0	0.00
00400	PH	Fresh Chronic	9.	13	0	0.00	3	0	0.00	4	0	0.00	2	0	4	0	0.00
		Other-Lo Lim.	6.5	13	0	0.00	3	0	0.00	4	0	0.00	2	0	4	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: TUZI0071

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00403	PH, LAB																
	Fresh Chronic	9.	8	0	0.00				4	0	0.00	1	0	0.00	3	0	0.00
	Other-Lo Lim.	6.5	8	0	0.00				4	0	0.00	1	0	0.00	3	0	0.00
00615	NITRITE NITROGEN, TOTAL AS N																
	Drinking Water	1.	6	0	0.00				4	0	0.00	1	0	0.00	1	0	0.00
00630	NITRITE PLUS NITRATE, TOTAL I DET.																
	Drinking Water	10.	9	0	0.00	3	0	0.00				2	0	0.00	4	0	0.00
00940	CHLORIDE,TOTAL IN WATER																
	Fresh Acute	860.	11	0	0.00	3	0	0.00	4	0	0.00	1	0	0.00	3	0	0.00
	Drinking Water	250.	11	0	0.00	3	0	0.00	4	0	0.00	1	0	0.00	3	0	0.00
00945	SULFATE, TOTAL (AS SO4)																
	Drinking Water	250.	17	1	0.06	3	0	0.00	4	1	0.25	3	0	0.00	7	0	0.00
00946	SULFATE, DISSOLVED (AS SO4)																
	Drinking Water	250.	1	0	0.00										1	0	0.00
00951	FLUORIDE, TOTAL AS F																
	Drinking Water	4.	3	1	0.33				3	1	0.33						
00997	ARSENIC, INORGANIC TOT																
	Fresh Acute	360.	1	0	0.00										1	0	0.00
	Drinking Water	50.	1	0	0.00										1	0	0.00
01000	ARSENIC, DISSOLVED																
	Fresh Acute	360.	11	0	0.00	3	0	0.00	1	0	0.00	2	0	0.00	5	0	0.00
	Drinking Water	50.	11	0	0.00	3	0	0.00	1	0	0.00	2	0	0.00	5	0	0.00
01002	ARSENIC, TOTAL																
	Fresh Acute	360.	8	0	0.00	1	0	0.00	4	0	0.00	3	0	0.00			
	Drinking Water	50.	8	0	0.00	1	0	0.00	4	0	0.00	3	0	0.00			
01025	CADMIUM, DISSOLVED																
	Fresh Acute	3.9	3 &	0	0.00				1	0	0.00	1	0	0.00	1	0	0.00
	Drinking Water	5.	3 &	0	0.00				1	0	0.00	1	0	0.00	1	0	0.00
01027	CADMIUM, TOTAL																
	Fresh Acute	3.9	4 &	0	0.00				4	0	0.00						
	Drinking Water	5.	4 &	0	0.00				4	0	0.00						
01030	CHROMIUM, DISSOLVED																
	Drinking Water	100.	10	0	0.00	3	0	0.00				2	0	0.00	5	0	0.00
01034	CHROMIUM, TOTAL																
	Drinking Water	100.	15	0	0.00	3	0	0.00	4	0	0.00	3	0	0.00	5	0	0.00
01040	COPPER, DISSOLVED																
	Fresh Acute	18.	1 &	1	1.00				1	1	1.00						
	Drinking Water	1300.	11	0	0.00	3	0	0.00	1	0	0.00	2	0	0.00	5	0	0.00
01042	COPPER, TOTAL																
	Fresh Acute	18.	0 &	0	0.00												
	Drinking Water	1300.	15	0	0.00	3	0	0.00	4	0	0.00	3	0	0.00	5	0	0.00
01049	LEAD, DISSOLVED																
	Fresh Acute	82.	11	0	0.00	3	0	0.00	1	0	0.00	2	0	0.00	5	0	0.00
	Drinking Water	15.	11	0	0.00	3	0	0.00	1	0	0.00	2	0	0.00	5	0	0.00
01051	LEAD, TOTAL																
	Fresh Acute	82.	8	0	0.00				4	0	0.00	3	0	0.00	1	0	0.00
	Drinking Water	15.	7 &	0	0.00				4	0	0.00	3	0	0.00			
01075	SILVER, DISSOLVED																
	Fresh Acute	4.1	0 &	0	0.00												
	Drinking Water	100.	2	0	0.00							1	0	0.00	1	0	0.00
01077	SILVER, TOTAL																
	Fresh Acute	4.1	0 &	0	0.00												
	Drinking Water	100.	3	0	0.00				2	0	0.00				1	0	0.00
01090	ZINC, DISSOLVED																
	Fresh Acute	120.	11	3	0.27	3	1	0.33	1	0	0.00	2	1	0.50	5	1	0.20
	Drinking Water	5000.	11	0	0.00	3	0	0.00	1	0	0.00	2	0	0.00	5	0	0.00
01092	ZINC, TOTAL																
	Fresh Acute	120.	15	1	0.07	3	0	0.00	4	0	0.00	3	0	0.00	5	1	0.20
	Drinking Water	5000.	15	0	0.00	3	0	0.00	4	0	0.00	3	0	0.00	5	0	0.00
01145	SELENIUM, DISSOLVED																
	Fresh Acute	20.	4	0	0.00				2	0	0.00	1	0	0.00	1	0	0.00
	Drinking Water	50.	4	0	0.00				2	0	0.00	1	0	0.00	1	0	0.00
01147	SELENIUM, TOTAL																
	Fresh Acute	20.	14	0	0.00	3	0	0.00	4	0	0.00	3	0	0.00	4	0	0.00
	Drinking Water	50.	14	0	0.00	3	0	0.00	4	0	0.00	3	0	0.00	4	0	0.00
31613	FECAL COLIFORM, MEMBRANE FILTER, AGAR																
	Other-Hi Lim.	200.	11	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00	4	0	0.00
71850	NITRATE NITROGEN, TOTAL (AS NO3)																
	Drinking Water	44.	8	0	0.00				4	0	0.00	1	0	0.00	3	0	0.00
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)																
	Drinking Water	44.	1	0	0.00										1	0	0.00
71890	MERCURY, DISSOLVED																
	Fresh Acute	2.4	1 &	0	0.00										1	0	0.00
	Drinking Water	2.	1 &	0	0.00										1	0	0.00
71900	MERCURY, TOTAL																
	Fresh Acute	2.4	15	0	0.00	3	0	0.00	4	0	0.00	3	0	0.00	5	0	0.00
	Drinking Water	2.	15	0	0.00	3	0	0.00	4	0	0.00	3	0	0.00	5	0	0.00
82079	TURBIDITY, LAB																
	Other-Hi Lim.	50.	4	0	0.00				3	0	0.00	1	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0072

NPS Station ID: TUZI0072 LAT/LON: 34.778338/-112.048199

Location: VERDE RIVER UPSTREAM OF BITTER CREEK

Station Type: /TYPA/AMBNT/STREAM/SOLIDS/MINE

RMI-Indexes:

RMI-Miles:

HUC: 15060202

Major Basin: COLORADO RIVER

Minor Basin: GILA RIVER

RF1 Index: 15060202

RF3 Index: 15060202002505.59

Description:

THE STATION IS LOCATED ON THE CLARKDALE AZ-YAVAPAI COUNTY 7.5 MINUTE VERDE RIVER UPSTREAM OF BITTER CREEK. THE SITE IS LOCATED OUTSIDE OF THE TUZIGOOT NATIONAL MONUMENT BOUNDARY. THE DATA ARE FROM A SITE SCREENING INVESTIGATION REPORT FOR THE PHELPS DODGE VERDE MINE AREA BY ECOLOGY AND ENVIRONMENT; INC. UNDER CONTRACT BY THE EPA. THE STUDY WAS CONDUCTED TO DETERMINE IF METALS ARE BEING RELEASED INTO THE ENVIRONMENT FROM A 116 ACRE TAILINGS PILE WHICH IS ADJACENT TO THE VERDE RIVER AND "CONTAINS APPROXIMATELY 4 MILLION TONS OF MINING WASTES." NPS STAFF ASSIGNED "J" STORET REMARK CODES TO VALUES THAT WERE ESTIMATED FROM ANALYTICAL MEASUREMENTS. FOR MORE INFORMATION CONTACT TUZIGOOT NATIONAL MONUMENT AT P.O. BOX 219; CAMP VERDE AZ 86332 (520-634-5564). DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (970-225-3516).

Agency: 11NPSWRD

FIPS State/County: 04025 ARIZONA/YAVAPAI

STORET Station ID(s): TUZI_EPA_EE07

Within Park Boundary: No

Date Created: 11/28/98

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 6.29

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.01

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: TUZI0072

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00917 CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	06/29/92-06/29/92	1	43100.	43100.	43100.	43100.	0.	0.	**	**	**	**
00924 MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	06/29/92-06/29/92	1	6000.	6000.	6000.	6000.	0.	0.	**	**	**	**
01003 ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/29/92-06/29/92	1	3.1	3.1	3.1	3.1	0.	0.	**	**	**	**
01008 BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/29/92-06/29/92	1	66.6	66.6	66.6	66.6	0.	0.	**	**	**	**
01013 BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/29/92-06/29/92	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01029 CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/29/92-06/29/92	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
01043 COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/29/92-06/29/92	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
01052 LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/29/92-06/29/92	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01053 MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/29/92-06/29/92	1	87.2	87.2	87.2	87.2	0.	0.	**	**	**	**
01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/29/92-06/29/92	1 ##	0.305	0.305	0.305	0.305	0.	0.	**	**	**	**
01088 VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	06/29/92-06/29/92	1	13.1	13.1	13.1	13.1	0.	0.	**	**	**	**
01098 ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	06/29/92-06/29/92	1 ##	3.85	3.85	3.85	3.85	0.	0.	**	**	**	**
01108 ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/29/92-06/29/92	1	2760.	2760.	2760.	2760.	0.	0.	**	**	**	**
01148 SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/29/92-06/29/92	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
01153 TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	06/29/92-06/29/92	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
01170 IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/29/92-06/29/92	1	5140.	5140.	5140.	5140.	0.	0.	**	**	**	**
04133 MERCURY, BED MAT,DRY WT,SEDIMENT,	06/29/92-06/29/92	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
81373 SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	06/29/92-06/29/92	1	98.4	98.4	98.4	98.4	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: TUZI0073

NPS Station ID: TUZI0073 LAT/LON: 34.778642/-112.072003

Location: BITTER CREEK UPSTREAM OF CLARKDALE BOUNDARY

Station Type: /TYPA/AMBNT/STREAM/SOLIDS/MINE

RMI-Indexes:

RMI-Miles:

HUC: 15060202

Major Basin: COLORADO RIVER

Minor Basin: GILA RIVER

RF1 Index: 15060202

RF3 Index: 15060202002505.59

Description:

THE STATION IS LOCATED ON THE CLARKDALE AZ-YAVAPAI COUNTY 7.5 MINUTE BITTER CREEK UPSTREAM OF THE CLARKDALE TOWN BOUNDARY. THE SITE IS LOCATED OUTSIDE OF THE TUZIGOOT NATIONAL MONUMENT BOUNDARY. THE DATA ARE FROM A SITE SCREENING INVESTIGATION REPORT FOR THE PHELPS DODGE VERDE MINE AREA BY ECOLOGY AND ENVIRONMENT; INC. UNDER CONTRACT BY THE EPA. THE STUDY WAS CONDUCTED TO DETERMINE IF METALS ARE BEING RELEASED INTO THE ENVIRONMENT FROM A 116 ACRE TAILINGS PILE WHICH IS ADJACENT TO THE VERDE RIVER AND "CONTAINS APPROXIMATELY 4 MILLION TONS OF MINING WASTES." NPS STAFF ASSIGNED "J" STORET REMARK CODES TO VALUES THAT WERE ESTIMATED FROM ANALYTICAL MEASUREMENTS. FOR MORE INFORMATION CONTACT TUZIGOOT NATIONAL MONUMENT AT P.O. BOX 219; CAMP VERDE AZ 86332 (520-634-5564). DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (970-225-3516).

Agency: 11NPSWRD

FIPS State/County: 04025 ARIZONA/YAVAPAI

STORET Station ID(s): TUZI_EPA_EE13

Within Park Boundary: No

Date Created: 11/28/98

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 6.29

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.01

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: TUZI0073

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00917 CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	06/30/92-06/30/92	2	109500.	109500.	118000.	101000.	144500000.	12020.815	**	**	**	**
00924 MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	06/30/92-06/30/92	2	9090.	9090.	9700.	8480.	744200.	862.67	**	**	**	**
00938 POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	06/30/92-06/30/92	1	1240.	1240.	1240.	1240.	0.	0.	**	**	**	**
01003 ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/30/92-06/30/92	2	7.7	7.7	9.5	5.9	6.48	2.546	**	**	**	**
01008 BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/30/92-06/30/92	2	388.5	388.5	540.	237.	45904.5	214.253	**	**	**	**
01028 CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/30/92-06/30/92	2	7.75	7.75	10.6	4.9	16.245	4.031	**	**	**	**
01029 CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/30/92-06/30/92	2	25.6	25.6	25.6	25.6	0.	0.	**	**	**	**
01043 COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/30/92-06/30/92	2	62.15	62.15	68.5	55.8	80.645	8.98	**	**	**	**
01052 LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/30/92-06/30/92	2	12.7	12.7	13.7	11.7	2.	1.414	**	**	**	**
01053 MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/30/92-06/30/92	2	210.5	210.5	215.	206.	40.5	6.364	**	**	**	**
01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/30/92-06/30/92	2	53.6	53.6	53.6	53.6	0.	0.	**	**	**	**
01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/30/92-06/30/92	2 ##	0.378	0.378	0.42	0.335	0.004	0.06	**	**	**	**
01088 VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	06/30/92-06/30/92	2	31.	31.	31.5	30.5	0.5	0.707	**	**	**	**
01093 ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/30/92-06/30/92	2	252.5	252.5	325.	180.	10512.5	102.53	**	**	**	**
01098 ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	06/30/92-06/30/92	2 ##	4.775	4.775	5.3	4.25	0.551	0.742	**	**	**	**
01108 ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/30/92-06/30/92	2	10255.	10255.	11700.	8810.	4176050.	2043.539	**	**	**	**
01148 SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/30/92-06/30/92	2 ##	0.625	0.625	0.7	0.55	0.011	0.106	**	**	**	**
01153 TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	06/30/92-06/30/92	2 ##	0.063	0.063	0.07	0.055	0.	0.011	**	**	**	**
01170 IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/30/92-06/30/92	2	12200.	12200.	12300.	12100.	20000.	141.421	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0073

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
04133 MERCURY, BED MAT, DRY WT, SEDIMENT,	06/30/92-06/30/92	2 ##	0.063	0.063	0.07	0.055	0.	0.011	**	**	**	**
81373 SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	06/30/92-06/30/92	2	80.45	80.45	89.2	71.7	153.125	12.374	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: TUZI0074

NPS Station ID: TUZI0074 Location: CENTRAL AREA OF TAVASCI MARSH Station Type: /TYPA/AMBNT/MINE/FWTLND RMI-Indexes: RMI-Miles: HUC: 15060202 Major Basin: COLORADO RIVER Minor Basin: GILA RIVER RF1 Index: 15060202 RF3 Index: 15060202002505.59 Description: THE STATION IS LOCATED ON THE CLARKDALE AZ-YAVAPAI COUNTY 7.5 MINUTE SEDIMENT FROM THE CENTRAL AREA OF TAVASCI MARSH. THIS SITE IS LOCATED EXPANDED SITE INSPECTION REPORT FOR THE PHELPS DODGE VERDE MINE AREA BY CONDUCTED TO DETERMINE IF METALS ARE BEING RELEASED INTO THE ENVIRON- AND "CONTAINS APPROXIMATELY 4 MILLION TONS OF MINING WASTES." NPS STAFF ASSIGNED "J" STORET REMARK CODES TO SOME VALUES THAT WERE ESTIMATED FROM ANALYTICAL MEASUREMENTS. FOR MORE INFORMATION CONTACT THE CHIEF DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; SUITE 250; FORT COLLINS CO 80525 (970-225-3516).	LAT/LON: 34.778670/-112.022227 Depth of Water: 0 Elevation: 0 RF1 Mile Point: 0.000 RF3 Mile Point: 6.29	Agency: 11NPSWRD FIPS State/County: 04025 ARIZONA/YAVAPAI STORET Station ID(s): TUZI_EPA_21 Within Park Boundary: Yes Aquifer: Water Body Id: ECO Region: Distance from RF1: 0.00 Distance from RF3: 0.01
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Date Created: 09/26/98

On/Off RF1:
On/Off RF3:

Parameter Inventory for Station: TUZI0074

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/04/93-08/04/93	2	131000.	131000.	132000.	130000.	2000000.	1414.214	**	**	**	**
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/04/93-08/04/93	2	24250.	24250.	24600.	23900.	245000.	494.975	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	08/04/93-08/04/93	2	45.95	45.95	46.2	45.7	0.125	0.354	**	**	**	**
00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/04/93-08/04/93	2	5820.	5820.	5960.	5680.	39200.	197.99	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	08/04/93-08/04/93	2	16.	16.	17.	15.	2.	1.414	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/04/93-08/04/93	2	42.3	42.3	44.2	40.4	7.22	2.687	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/04/93-08/04/93	2	454.	454.	462.	446.	128.	11.314	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	08/04/93-08/04/93	2 ##	0.15	0.15	0.15	0.15	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	08/04/93-08/04/93	2 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	2	6.3	6.3	6.6	6.	0.18	0.424	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	2	36.55	36.55	37.4	35.7	1.445	1.202	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	08/04/93-08/04/93	2 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	08/04/93-08/04/93	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	08/04/93-08/04/93	2 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/04/93-08/04/93	2	247.	247.	255.	239.	128.	11.314	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/04/93-08/04/93	2	103.	103.	106.	100.	18.	4.243	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/04/93-08/04/93	2	559.5	559.5	561.	558.	4.5	2.121	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	08/04/93-08/04/93	2	269.5	269.5	289.	250.	760.5	27.577	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	08/04/93-08/04/93	2 ##	0.45	0.45	0.45	0.45	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0074

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01067 NICKEL, TOTAL (UG/L AS NI)	08/04/93-08/04/93	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	08/04/93-08/04/93	2	27.05	27.05	28.1	26.	2.205	1.485	**	**	**	**
01077 SILVER, TOTAL (UG/L AS AG)	08/04/93-08/04/93	1 ##	1.45	1.45	1.45	1.45	0.	0.	**	**	**	**
01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/04/93-08/04/93	2 ##	0.43	0.43	0.435	0.425	0.	0.007	**	**	**	**
01081 STRONTIUM, SUSPENDED (UG/L AS SR)	08/04/93-08/04/93	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01088 VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/04/93-08/04/93	2	52.35	52.35	53.	51.7	0.845	0.919	**	**	**	**
01093 ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/04/93-08/04/93	2	250.	250.	259.	241.	162.	12.728	**	**	**	**
01108 ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/04/93-08/04/93	2	29650.	29650.	30100.	29200.	405000.	636.396	**	**	**	**
01170 IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/04/93-08/04/93	2	21850.	21850.	22100.	21600.	125000.	353.553	**	**	**	**
04133 MERCURY, BED MAT, DRY WT, SEDIMENT,	08/04/93-08/04/93	2	0.4	0.4	0.46	0.34	0.007	0.085	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)	08/04/93-08/04/93	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
81373 SOLIDS IN SEDIMENT SAMPLE PERCENT DRY WEIGHT (%)	08/04/93-08/04/93	4	58.15	58.35	59.6	57.5	0.99	0.995	**	**	**	**
81951 TOTAL ORGANIC CARBON (TOC) SEDIMENT DRY WEIGHT MG/KG	08/04/93-08/04/93	2	37100.	37100.	46000.	28200.	158420000.	12586.501	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0074

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
01002 ARSENIC, TOTAL	Fresh Acute	360.	2	0	0.00										2	0	0.00
	Drinking Water	50.	2	0	0.00										2	0	0.00
	Fresh Acute	130.	2	0	0.00										2	0	0.00
01027 CADMIUM, TOTAL	Drinking Water	4.	2	0	0.00										2	0	0.00
	Fresh Acute	3.9	2	0	0.00										2	0	0.00
	Drinking Water	5.	2	0	0.00										2	0	0.00
01034 CHROMIUM, TOTAL	Drinking Water	100.	2	0	0.00										2	0	0.00
	Fresh Acute	18.	2	0	0.00										2	0	0.00
	Drinking Water	1300.	2	0	0.00										2	0	0.00
01059 THALLIUM, TOTAL	Fresh Acute	1400.	2	0	0.00										2	0	0.00
	Drinking Water	2.	2	0	0.00										2	0	0.00
	Fresh Acute	1400.	1	0	0.00										1	0	0.00
01067 NICKEL, TOTAL	Drinking Water	100.	1	0	0.00										1	0	0.00
	Fresh Acute	4.1	1	0	0.00										1	0	0.00
	Drinking Water	100.	1	0	0.00										1	0	0.00
01077 SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00										1	0	0.00
	Drinking Water	100.	1	0	0.00										1	0	0.00
	Fresh Acute	2.4	2	0	0.00										2	0	0.00
71900 MERCURY, TOTAL	Drinking Water	2.	2	0	0.00										2	0	0.00
	Fresh Acute	2.	2	0	0.00										2	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0075

NPS Station ID: TUZI0075 LAT/LON: 34.779810/-112.021892

Location: NURE STATION WITHIN TEN MILES OF MONUMENT

Station Type: /TYPA/AMBNT/SPRING

RMI-Indexes:

RMI-Miles:

HUC: 15060202

Major Basin: COLORADO RIVER

Minor Basin: GILA RIVER

RF1 Index: 15060202

RF3 Index: 15060202002505.59

Description:

THE SITE IS LOCATED ON THE CLARKDALE; YAVAPAI CO-AZ 1:24000 SERIES USGS TOPOGRAPHIC QUADRANGLE. THE SITE IS LOCATED ON A SPRING INSIDE THE TUZIGOOT NATIONAL MONUMENT BOUNDARIES. THE SAMPLES ARE FILTERED THROUGH A 0.45 MICRON FILTER. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY; NATIONAL GEOCHEMICAL DATA BASE; NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE SAMPLES WERE ANALYZED BY LAWRENCE LIVERMORE LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY MARY BETH TALTY OF NPS-WRD FORT COLLINS; CO 80525. TEL. (970) 225-3516.

Agency: 11NPSWRD

FIPS State/County: 04025 ARIZONA/YAVAPAI

STORET Station ID(s): TUZI_NURE_1 /NURE_8085100

Within Park Boundary: Yes

Date Created: 04/18/98

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 6.29

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.01

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: TUZI0075

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/08/78-07/08/78	1	19.2	19.2	19.2	19.2	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/08/78-07/08/78	1	511.	511.	511.	511.	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)	07/08/78-07/08/78	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	07/08/78-07/08/78	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/08/78-07/08/78	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	07/08/78-07/08/78	1	283.	283.	283.	283.	0.	0.	**	**	**	**
00666 PHOSPHORUS, DISSOLVED (MG/L AS P)	07/08/78-07/08/78	1	0.262	0.262	0.262	0.262	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	07/08/78-07/08/78	1	79.9	79.9	79.9	79.9	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	07/08/78-07/08/78	1	24.9	24.9	24.9	24.9	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS Na)	07/08/78-07/08/78	1	5.05	5.05	5.05	5.05	0.	0.	**	**	**	**
00946 SULFATE, DISSOLVED (MG/L AS SO4)	07/08/78-07/08/78	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01000 ARSENIC, DISSOLVED (UG/L AS AS)	07/08/78-07/08/78	1 ##	70.	70.	70.	70.	0.	0.	**	**	**	**
01025 CADMIUM, DISSOLVED (UG/L AS CD)	07/08/78-07/08/78	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01040 COPPER, DISSOLVED (UG/L AS CU)	07/08/78-07/08/78	1	7.	7.	7.	7.	0.	0.	**	**	**	**
01046 IRON, DISSOLVED (UG/L AS FE)	07/08/78-07/08/78	1	12.	12.	12.	12.	0.	0.	**	**	**	**
01060 MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/08/78-07/08/78	1	26.	26.	26.	26.	0.	0.	**	**	**	**
01085 VANADIUM, DISSOLVED (UG/L AS V)	07/08/78-07/08/78	1	9.	9.	9.	9.	0.	0.	**	**	**	**
01090 ZINC, DISSOLVED (UG/L AS ZN)	07/08/78-07/08/78	1	73.	73.	73.	73.	0.	0.	**	**	**	**
01106 ALUMINUM, DISSOLVED (UG/L AS AL)	07/08/78-07/08/78	1	66.	66.	66.	66.	0.	0.	**	**	**	**
01130 LITHIUM, DISSOLVED (UG/L AS LI)	07/08/78-07/08/78	1	16.	16.	16.	16.	0.	0.	**	**	**	**
01140 SILICON, DISSOLVED (UG/L AS SI)	07/08/78-07/08/78	1	5961.	5961.	5961.	5961.	0.	0.	**	**	**	**
01150 TITANIUM, DISSOLVED (UG/L AS TI)	07/08/78-07/08/78	1	2.	2.	2.	2.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0075

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
50760 CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/08/78-07/08/78	1	5000.	5000.	5000.	5000.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0075

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
00400 PH	Fresh Chronic	9.	1	0	0.00										1	0	0.00
	Other-Lo Lim.	6.5	1	0	0.00										1	0	0.00
	Drinking Water	250.	1	0	0.00										1	0	0.00
01000 ARSENIC, DISSOLVED	Fresh Acute	360.	1	0	0.00										1	0	0.00
	Drinking Water	50.	0 &	0	0.00												
	Fresh Acute	3.9	1	0	0.00										1	0	0.00
01025 CADMIUM, DISSOLVED	Drinking Water	5.	1	0	0.00										1	0	0.00
	Fresh Acute	18.	1	0	0.00										1	0	0.00
	Drinking Water	1300.	1	0	0.00										1	0	0.00
01040 COPPER, DISSOLVED	Fresh Acute	120.	1	0	0.00										1	0	0.00
	Drinking Water	5000.	1	0	0.00										1	0	0.00
	Fresh Acute																
01090 ZINC, DISSOLVED	Drinking Water																

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0076

NPS Station ID: TUZI0076	LAT/LON: 34.780115/-112.024892	Agency: 11NPSWRD	Date Created: 09/26/98
Location: NORTHERN AREA OF TAVASCI MARSH		FIPS State/County: 04025 ARIZONA/YAVAPAI	
Station Type: /TYPA/AMBNT/MINE/FWTLND		STORET Station ID(s): TUZI_EPA_20	
RMI-Indexes:		Within Park Boundary: Yes	
RMI-Miles:			
HUC: 15060202	Depth of Water: 0	Aquifer:	
Major Basin: COLORADO RIVER	Elevation: 0	Water Body Id:	
Minor Basin: GILA RIVER		ECO Region:	
RF1 Index: 15060202	RF1 Mile Point: 0.000	Distance from RF1: 0.00	On/Off RF1:
RF3 Index: 15060202002505.59	RF3 Mile Point: 6.29	Distance from RF3: 0.01	On/Off RF3:

Description:
 THE STATION IS LOCATED ON THE CLARKDALE AZ-YAVAPAI COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SAMPLES INCLUDE SURFACE WATER AND SEDIMENT FROM THE NORTHERN AREA OF TAVASCI MARSH. THIS SITE IS LOCATED WITHIN THE TUZIGOOT NATIONAL MONUMENT (TUZI) BOUNDARY. THE DATA ARE FROM AN EXPANDED SITE INSPECTION REPORT FOR THE PHELPS DODGE VERDE MINE AREA BY ECOLOGY AND ENVIRONMENT, INC. UNDER CONTRACT BY THE EPA. THE STUDY WAS CONDUCTED TO DETERMINE IF METALS ARE BEING RELEASED INTO THE ENVIRONMENT FROM A 116 ACRE TAILINGS PILE WHICH IS ADJACENT TO THE VERDE RIVER AND "CONTAINS APPROXIMATELY 4 MILLION TONS OF MINING WASTES." NPS STAFF ASSIGNED "J" STORET REMARK CODES TO SOME VALUES THAT WERE ESTIMATED FROM ANALYTICAL MEASUREMENTS. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT TUZI, PO BOX 219; CAMP VERDE AZ 86332 (520-634-5564). DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NPS WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (970-225-3516).

Parameter Inventory for Station: TUZI0076

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/04/93-08/04/93	1	176000.	176000.	176000.	176000.	0.	0.	**	**	**	**
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/04/93-08/04/93	1	22000.	22000.	22000.	22000.	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	08/04/93-08/04/93	1	73.6	73.6	73.6	73.6	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	08/04/93-08/04/93	1	6.28	6.28	6.28	6.28	0.	0.	**	**	**	**
00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/04/93-08/04/93	1	6290.	6290.	6290.	6290.	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	08/04/93-08/04/93	1	112.	112.	112.	112.	0.	0.	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/04/93-08/04/93	1	69.8	69.8	69.8	69.8	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/04/93-08/04/93	1	447.	447.	447.	447.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	08/04/93-08/04/93	1 ##	0.15	0.15	0.15	0.15	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	08/04/93-08/04/93	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	1	39.6	39.6	39.6	39.6	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	08/04/93-08/04/93	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/04/93-08/04/93	1	200.	200.	200.	200.	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/04/93-08/04/93	1	97.7	97.7	97.7	97.7	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/04/93-08/04/93	1	365.	365.	365.	365.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	08/04/93-08/04/93	1	607.	607.	607.	607.	0.	0.	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	08/04/93-08/04/93	1 ##	0.45	0.45	0.45	0.45	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	08/04/93-08/04/93	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0076

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	08/04/93-08/04/93	1	37.8	37.8	37.8	37.8	0.	0.	**	**	**	**
01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/04/93-08/04/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01088 VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/04/93-08/04/93	1	70.3	70.3	70.3	70.3	0.	0.	**	**	**	**
01093 ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/04/93-08/04/93	1	251.	251.	251.	251.	0.	0.	**	**	**	**
01105 ALUMINUM, TOTAL (UG/L AS AL)	08/04/93-08/04/93	1	467.	467.	467.	467.	0.	0.	**	**	**	**
01108 ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/04/93-08/04/93	1	32300.	32300.	32300.	32300.	0.	0.	**	**	**	**
01170 IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/04/93-08/04/93	1	21800.	21800.	21800.	21800.	0.	0.	**	**	**	**
04133 MERCURY, BED MAT, DRY WT, SEDIMENT,	08/04/93-08/04/93	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)	08/04/93-08/04/93	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
81373 SOLIDS IN SEDIMENT SAMPLE PERCENT DRY WEIGHT (%)	08/04/93-08/04/93	2	45.95	45.95	46.4	45.5	0.405	0.636	**	**	**	**
81951 TOTAL ORGANIC CARBON(TOC) SEDIMENT DRY WEIGHT MG/KG	08/04/93-08/04/93	1	38800.	38800.	38800.	38800.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0076

Parameter	Std. Type	Std. Value	Total	Exceed	Prop.	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
			Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
01002 ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00										1	0	0.00
	Drinking Water	50.	1	1	1.00										1	1	1.00
01012 BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00										1	0	0.00
	Drinking Water	4.	1	0	0.00										1	0	0.00
01027 CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00										1	0	0.00
	Drinking Water	5.	1	0	0.00										1	0	0.00
01042 COPPER, TOTAL	Fresh Acute	18.	1	0	0.00										1	0	0.00
	Drinking Water	1300.	1	0	0.00										1	0	0.00
01059 THALLIUM, TOTAL	Fresh Acute	1400.	1	0	0.00										1	0	0.00
	Drinking Water	2.	1	0	0.00										1	0	0.00
01067 NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00										1	0	0.00
	Drinking Water	100.	1	0	0.00										1	0	0.00
71900 MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00										1	0	0.00
	Drinking Water	2.	1	0	0.00										1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0077

NPS Station ID: TUZI0077 LAT/LON: 34.780142/-112.043226
 Location: CENTER OF PECKS LAKE 3000 FEET NW OF DIRT ROAD
 Station Type: /RESERV/TYPA/AMBNT/MINE
 RMI-Indexes:
 RMI-Miles:
 HUC: 15060202 Depth of Water: 0
 Major Basin: COLORADO RIVER Elevation: 0
 Minor Basin: GILA RIVER
 RF1 Index: 15060202 RF1 Mile Point: 0.000
 RF3 Index: 15060202002505.59 RF3 Mile Point: 6.29
 Description:

Agency: 11NPSWRD
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): TUZI_EPA_16
 Within Park Boundary: No

Date Created: 09/26/98

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.01

On/Off RF1:
 On/Off RF3:

THE STATION IS LOCATED ON THE CLARKDALE AZ-YAVAPAI COUNTY 7.5 MINUTE SEDIMENT FROM THE CENTER OF PECKS LAKE; 300 FEET NORTHWEST OF THE DIRT ROAD. THIS SITE IS LOCATED OUTSIDE OF THE TUZIGOOT NATIONAL MONUMENT (TUZI) BOUNDARY. THE DATA ARE FROM AN EXPANDED SITE INSPECTION REPORT FOR THE PHELPS DODGE VERDE MINE AREA BY ECOLOGY AND ENVIRONMENT, INC. UNDER CONTRACT BY THE EPA. THE STUDY WAS CONDUCTED TO DETERMINE IF METALS ARE BEING RELEASED INTO THE ENVIRONMENT FROM A 116 ACRE TAILINGS PILE WHICH IS ADJACENT TO THE VERDE RIVER AND "CONTAINS APPROXIMATELY 4 MILLION TONS OF MINING WASTES." NPS STAFF ASSIGNED "J" STORET REMARK CODES TO SOME VALUES THAT WERE ESTIMATED FROM ANALYTICAL MEASUREMENTS. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT TUZI; PO BOX 219; CAMP VERDE AZ 86332 (520-634-5564). DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NPS WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (970-225-3516).

Parameter Inventory for Station: TUZI0077

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00916 CALCIUM, TOTAL (MG/L AS CA)	08/03/93-08/03/93	1	31.3	31.3	31.3	31.3	0.	0.	**	**	**	**
00917 CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/03/93-08/03/93	1	173000.	173000.	173000.	173000.	0.	0.	**	**	**	**
00924 MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/03/93-08/03/93	1	13100.	13100.	13100.	13100.	0.	0.	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)	08/03/93-08/03/93	1	24.7	24.7	24.7	24.7	0.	0.	**	**	**	**
01002 ARSENIC, TOTAL (UG/L AS AS)	08/03/93-08/03/93	1	26.	26.	26.	26.	0.	0.	**	**	**	**
01003 ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/03/93-08/03/93	1	34.4	34.4	34.4	34.4	0.	0.	**	**	**	**
01008 BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/03/93-08/03/93	1	606.	606.	606.	606.	0.	0.	**	**	**	**
01012 BERYLLIUM, TOTAL (UG/L AS BE)	08/03/93-08/03/93	1 ##	0.15	0.15	0.15	0.15	0.	0.	**	**	**	**
01027 CADMIUM, TOTAL (UG/L AS CD)	08/03/93-08/03/93	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01028 CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/03/93-08/03/93	1 ##	3.25	3.25	3.25	3.25	0.	0.	**	**	**	**
01029 CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/03/93-08/03/93	1	23.1	23.1	23.1	23.1	0.	0.	**	**	**	**
01034 CHROMIUM, TOTAL (UG/L AS CR)	08/03/93-08/03/93	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01037 COBALT, TOTAL (UG/L AS CO)	08/03/93-08/03/93	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01042 COPPER, TOTAL (UG/L AS CU)	08/03/93-08/03/93	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01043 COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/03/93-08/03/93	1	129.	129.	129.	129.	0.	0.	**	**	**	**
01052 LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/03/93-08/03/93	1	65.	65.	65.	65.	0.	0.	**	**	**	**
01053 MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/03/93-08/03/93	1	627.	627.	627.	627.	0.	0.	**	**	**	**
01059 THALLIUM, TOTAL (UG/L AS TL)	08/03/93-08/03/93	1 ##	0.45	0.45	0.45	0.45	0.	0.	**	**	**	**
01067 NICKEL, TOTAL (UG/L AS NI)	08/03/93-08/03/93	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0077

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	08/03/93-08/03/93	1 ##	13.6	13.6	13.6	13.6	0.	0.	**	**	**	**
01077 SILVER, TOTAL (UG/L AS AG)	08/03/93-08/03/93	1 ##	1.45	1.45	1.45	1.45	0.	0.	**	**	**	**
01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/03/93-08/03/93	1 ##	1.95	1.95	1.95	1.95	0.	0.	**	**	**	**
01093 ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/03/93-08/03/93	1	140.	140.	140.	140.	0.	0.	**	**	**	**
01097 ANTIMONY, TOTAL (UG/L AS SB)	08/03/93-08/03/93	1 ##	12.	12.	12.	12.	0.	0.	**	**	**	**
01108 ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/03/93-08/03/93	1	16500.	16500.	16500.	16500.	0.	0.	**	**	**	**
01147 SELENIUM, TOTAL (UG/L AS SE)	08/03/93-08/03/93	1 ##	0.45	0.45	0.45	0.45	0.	0.	**	**	**	**
01153 TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/03/93-08/03/93	1 ##	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
01170 IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/03/93-08/03/93	1	16000.	16000.	16000.	16000.	0.	0.	**	**	**	**
04133 MERCURY, BED MAT, DRY WT, SEDIMENT,	08/03/93-08/03/93	1 ##	0.205	0.205	0.205	0.205	0.	0.	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)	08/03/93-08/03/93	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
81373 SOLIDS IN SEDIMENT SAMPLE PERCENT DRY WEIGHT (%)	08/03/93-08/03/93	2	10.55	10.55	10.7	10.4	0.045	0.212	**	**	**	**
81951 TOTAL ORGANIC CARBON(TOC) SEDIMENT DRY WEIGHT MG/KG	08/03/93-08/03/93	1	58200.	58200.	58200.	58200.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0077

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
01002 ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00										1	0	0.00
	Drinking Water	50.	1	0	0.00										1	0	0.00
01012 BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00										1	0	0.00
	Drinking Water	4.	1	0	0.00										1	0	0.00
01027 CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00										1	0	0.00
	Drinking Water	5.	1	0	0.00										1	0	0.00
01034 CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00										1	0	0.00
01042 COPPER, TOTAL	Fresh Acute	18.	1	0	0.00										1	0	0.00
	Drinking Water	1300.	1	0	0.00										1	0	0.00
01059 THALLIUM, TOTAL	Fresh Acute	1400.	1	0	0.00										1	0	0.00
	Drinking Water	2.	1	0	0.00										1	0	0.00
01067 NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00										1	0	0.00
	Drinking Water	100.	1	0	0.00										1	0	0.00
01077 SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00										1	0	0.00
	Drinking Water	100.	1	0	0.00										1	0	0.00
01097 ANTIMONY, TOTAL	Fresh Acute	88.	1	0	0.00										1	0	0.00
	Drinking Water	6.	0 &	0	0.00												
01147 SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00										1	0	0.00
	Drinking Water	50.	1	0	0.00										1	0	0.00
71900 MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00										1	0	0.00
	Drinking Water	2.	1	0	0.00										1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0078

NPS Station ID: TUZI0078 LAT/LON: 34.780281/-112.027781

Location: DRAINAGE CHANNEL LEADING TO TAVASCI MARSH

Station Type: /CANAL/TYPA/AMBNT/MINE

RMI-Indexes:

RMI-Miles:

HUC: 15060202

Major Basin: COLORADO RIVER

Minor Basin: GILA RIVER

RF1 Index: 15060202

RF3 Index: 15060202002505.59

Description:

THE STATION IS LOCATED ON THE CLARKDALE AZ-YAVAPAI COUNTY 7.5 MINUTE DRAINAGE CHANNEL LEADING TO TAVASCI MARSH AND DOWNSTREAM OF CULVERT (TUZI) BOUNDARY. THE DATA ARE FROM AN EXPANDED SITE INSPECTION REPORT UNDER CONTRACT BY THE EPA. THE STUDY WAS CONDUCTED TO DETERMINE IF PILE WHICH IS ADJACENT TO THE VERDE RIVER AND "CONTAINS APPROXIMATELY CODES TO SOME VALUES THAT WERE ESTIMATED FROM ANALYTICAL MEASUREMENTS. CAMP VERDE AZ 86332 (520-634-5564). DATA WERE PROCESSED AND UPLOADED 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (970-225-3516).

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 6.29

Agency: 11NPSWRD

FIPS State/County: 04025 ARIZONA/YAVAPAI

STORET Station ID(s): TUZI_EPA_19

Within Park Boundary: No

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.01

Date Created: 09/26/98

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: TUZI0078

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00917 CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/04/93-08/04/93	1	263000.	263000.	263000.	263000.	0.	0.	**	**	**	**
00924 MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/04/93-08/04/93	1	6770.	6770.	6770.	6770.	0.	0.	**	**	**	**
01003 ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/04/93-08/04/93	1	11.2	11.2	11.2	11.2	0.	0.	**	**	**	**
01008 BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/04/93-08/04/93	1	147.	147.	147.	147.	0.	0.	**	**	**	**
01028 CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	1	1.2	1.2	1.2	1.2	0.	0.	**	**	**	**
01029 CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	1	10.1	10.1	10.1	10.1	0.	0.	**	**	**	**
01043 COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/04/93-08/04/93	1	24.3	24.3	24.3	24.3	0.	0.	**	**	**	**
01052 LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/04/93-08/04/93	1	11.7	11.7	11.7	11.7	0.	0.	**	**	**	**
01053 MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/04/93-08/04/93	1	196.	196.	196.	196.	0.	0.	**	**	**	**
01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/04/93-08/04/93	1##	0.265	0.265	0.265	0.265	0.	0.	**	**	**	**
01088 VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/04/93-08/04/93	1	13.3	13.3	13.3	13.3	0.	0.	**	**	**	**
01093 ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/04/93-08/04/93	1	33.3	33.3	33.3	33.3	0.	0.	**	**	**	**
01108 ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/04/93-08/04/93	1	4110.	4110.	4110.	4110.	0.	0.	**	**	**	**
01153 TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/04/93-08/04/93	1##	0.075	0.075	0.075	0.075	0.	0.	**	**	**	**
01170 IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/04/93-08/04/93	1	7510.	7510.	7510.	7510.	0.	0.	**	**	**	**
04133 MERCURY, BED MAT,DRY WT,SEDIMENT,	08/04/93-08/04/93	1##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
81373 SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	08/04/93-08/04/93	2	87.35	87.35	90.	84.7	14.045	3.748	**	**	**	**
81951 TOTAL ORGANIC CARBON(TOC)SEDIMENT DRY WEIGHT MG/KG	08/04/93-08/04/93	1	1040.	1040.	1040.	1040.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: TUZI0079

NPS Station ID: TUZI0079 LAT/LON: 34.780531/-112.028642
 Location: PECKS LAKE AT EASTERNMOST POINT; WEST OF ROAD
 Station Type: /RESERV/TYPA/AMBNT/MINE
 RMI-Indexes:
 RMI-Miles:
 HUC: 15060202 Depth of Water: 0
 Major Basin: COLORADO RIVER Elevation: 0
 Minor Basin: GILA RIVER
 RF1 Index: 15060202 RF1 Mile Point: 0.000
 RF3 Index: 15060202002505.59 RF3 Mile Point: 6.29

Agency: 11NPSWRD
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): TUZI_EPA_05
 Within Park Boundary: No

Date Created: 09/26/98

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.01

On/Off RF1:
 On/Off RF3:

Description:
 THE STATION IS LOCATED ON THE CLARKDALE AZ-YAVAPAI COUNTY 7.5 MINUTE SEDIMENT FROM PECKS LAKE AT THE EASTERNMOST POINT; AND WEST OF THE ROAD. THIS SITE IS LOCATED OUTSIDE OF THE TUZIGOOT NATIONAL MONUMENT (TUZI) BOUNDARY. THE DATA ARE FROM AN EXPANDED SITE INSPECTION REPORT FOR UNDER CONTRACT BY THE EPA. THE STUDY WAS CONDUCTED TO DETERMINE IF PILE WHICH IS ADJACENT TO THE VERDE RIVER AND "CONTAINS APPROXIMATELY 4 MILLION TONS OF MINING WASTES." NPS STAFF ASSIGNED "J" STORET REMARK CODES TO SOME VALUES THAT WERE ESTIMATED FROM ANALYTICAL MEASUREMENTS. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT TUZI; PO BOX 219; CAMP VERDE AZ 86332 (520-634-5564). DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NPS WATER RESOURCES DIVISION;
 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (970-225-3516).

Parameter Inventory for Station: TUZI0079

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/04/93-08/04/93	2	97600.	97600.	98000.	97200.	320000.	565.685	**	**	**	**
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/04/93-08/04/93	2	10400.	10400.	10500.	10300.	20000.	141.421	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	08/04/93-08/04/93	2	42.9	42.9	44.8	41.	7.22	2.687	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	08/04/93-08/04/93	2	9.035	9.035	10.4	7.67	3.726	1.93	**	**	**	**
00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/04/93-08/04/93	2	2380.	2380.	2550.	2210.	57800.	240.416	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	08/04/93-08/04/93	2	94.	94.	100.	88.	72.	8.485	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/04/93-08/04/93	2	8.85	8.85	8.9	8.8	0.005	0.071	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/04/93-08/04/93	2	184.5	184.5	189.	180.	40.5	6.364	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	08/04/93-08/04/93	2 ##	0.15	0.15	0.15	0.15	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	08/04/93-08/04/93	2 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	2 ##	1.1	1.1	1.6	0.6	0.5	0.707	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/04/93-08/04/93	2	18.15	18.15	18.8	17.5	0.845	0.919	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	08/04/93-08/04/93	2 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/04/93-08/04/93	2	66.	66.	71.9	60.1	69.62	8.344	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/04/93-08/04/93	2	24.9	24.9	26.3	23.5	3.92	1.98	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/04/93-08/04/93	2	159.	159.	163.	155.	32.	5.657	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	08/04/93-08/04/93	2	56.15	56.15	60.7	51.6	41.405	6.435	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	08/04/93-08/04/93	2 ##	0.45	0.45	0.45	0.45	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	08/04/93-08/04/93	2 ##	10.	10.	10.	10.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0079

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	08/04/93-08/04/93	2	13.45	13.45	14.1	12.8	0.845	0.919	**	**	**	**
01077 SILVER, TOTAL (UG/L AS AG)	08/04/93-08/04/93	2 ##	1.45	1.45	1.45	1.45	0.	0.	**	**	**	**
01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/04/93-08/04/93	2 ##	0.383	0.383	0.405	0.36	0.001	0.032	**	**	**	**
01088 VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/04/93-08/04/93	2	25.8	25.8	26.5	25.1	0.98	0.99	**	**	**	**
01093 ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/04/93-08/04/93	2	60.45	60.45	62.2	58.7	6.125	2.475	**	**	**	**
01098 ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	08/04/93-08/04/93	1 ##	3.	3.	3.	3.	0.	0.	**	**	**	**
01105 ALUMINUM, TOTAL (UG/L AS AL)	08/04/93-08/04/93	2	796.	796.	970.	622.	60552.	246.073	**	**	**	**
01108 ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/04/93-08/04/93	2	11400.	11400.	11500.	11300.	20000.	141.421	**	**	**	**
01153 TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/04/93-08/04/93	2 ##	0.103	0.103	0.11	0.095	0.	0.011	**	**	**	**
01170 IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/04/93-08/04/93	2	9005.	9005.	9040.	8970.	2450.	49.497	**	**	**	**
04133 MERCURY, BED MAT, DRY WT, SEDIMENT,	08/04/93-08/04/93	2 ##	0.035	0.035	0.035	0.035	0.	0.	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)	08/04/93-08/04/93	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
81373 SOLIDS IN SEDIMENT SAMPLE PERCENT DRY WEIGHT (%)	08/04/93-08/04/93	4	66.2	66.275	68.	64.7	1.882	1.372	**	**	**	**
81951 TOTAL ORGANIC CARBON(TOC) SEDIMENT DRY WEIGHT MG/KG	08/04/93-08/04/93	2	15650.	15650.	20100.	11200.	39605000.	6293.25	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0079

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----		-----2/10-4/30-----		-----5/01-6/30-----		-----7/01-10/09-----	
						Obs	Exceed	Obs	Exceed	Obs	Exceed	Obs	Exceed
01002 ARSENIC, TOTAL	Fresh Acute	360.	2	0	0.00							2	0
	Drinking Water	50.	2	2	1.00							2	2
01012 BERYLLIUM, TOTAL	Fresh Acute	130.	2	0	0.00							2	0
	Drinking Water	4.	2	0	0.00							2	0
01027 CADMIUM, TOTAL	Fresh Acute	3.9	2	0	0.00							2	0
	Drinking Water	5.	2	0	0.00							2	0
01059 THALLIUM, TOTAL	Fresh Acute	1400.	2	0	0.00							2	0
	Drinking Water	2.	2	0	0.00							2	0
01067 NICKEL, TOTAL	Fresh Acute	1400.	2	0	0.00							2	0
	Drinking Water	100.	2	0	0.00							2	0
01077 SILVER, TOTAL	Fresh Acute	4.1	2	0	0.00							2	0
	Drinking Water	100.	2	0	0.00							2	0
71900 MERCURY, TOTAL	Fresh Acute	2.4	2	0	0.00							2	0
	Drinking Water	2.	2	0	0.00							2	0

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0080

NPS Station ID: TUZI0080 LAT/LON: 34.780809/-112.077059

Location: TRIB NEAR CEMENT PLANT DRAINING TO BITTER CK

Station Type: /TYPA/AMBNT/STREAM/SOLIDS/MINE

RMI-Indexes:

RMI-Miles:

HUC: 15060202

Major Basin: COLORADO RIVER

Minor Basin: GILA RIVER

RF1 Index: 15060202

RF3 Index: 15060202002505.59

Description:

THE STATION IS LOCATED ON THE CLARKDALE AZ-YAVAPAI COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SEDIMENT SAMPLING SITE IS AT THE TRIBUTARY NEAR THE CEMENT PLANT THAT DRAINS INTO BITTER CREEK. THE SITE IS LOCATED OUTSIDE OF THE TUZIGOOT NATIONAL MONUMENT (TUZI) BOUNDARY. THE DATA ARE FROM A SITE SCREENING INVESTIGATION REPORT FOR THE PHELPS DODGE VERDE MINE AREA BY ECOLOGY AND ENVIRONMENT, INC. UNDER CONTRACT BY THE EPA. THE STUDY WAS CONDUCTED TO DETERMINE IF METALS ARE BEING RELEASED INTO THE ENVIRONMENT FROM A 116 ACRE TAILINGS PILE WHICH IS ADJACENT TO THE VERDE RIVER AND "CONTAINS APPROXIMATELY 4 MILLION TONS OF MINING WASTES." NPS STAFF ASSIGNED "J" STORET REMARK CODES TO VALUES THAT WERE ESTIMATED FROM ANALYTICAL MEASUREMENTS. FOR MORE INFORMATION CONTACT TUZIGOOT NATIONAL MONUMENT AT P.O. BOX 219; CAMP VERDE AZ 86332 (520-634-5564). DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (970-225-3516).

Agency: 11NPSWRD

FIPS State/County: 04025 ARIZONA/YAVAPAI

STORET Station ID(s): TUZI_EPA_EE14

Within Park Boundary: No

Date Created: 11/28/98

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 6.29

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.01

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: TUZI0080

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th	
00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	06/30/92-06/30/92	1	103000.	103000.	103000.	103000.	0.	0.	**	**	**	**
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	06/30/92-06/30/92	1	11100.	11100.	11100.	11100.	0.	0.	**	**	**	**
00938	POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	06/30/92-06/30/92	1	2130.	2130.	2130.	2130.	0.	0.	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/30/92-06/30/92	1	55.6	55.6	55.6	55.6	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/30/92-06/30/92	1	211.	211.	211.	211.	0.	0.	**	**	**	**
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/30/92-06/30/92	1	10.1	10.1	10.1	10.1	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/30/92-06/30/92	1	30.9	30.9	30.9	30.9	0.	0.	**	**	**	**
01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	06/30/92-06/30/92	1	15.2	15.2	15.2	15.2	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/30/92-06/30/92	1	1320.	1320.	1320.	1320.	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/30/92-06/30/92	1	132.	132.	132.	132.	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/30/92-06/30/92	1	440.	440.	440.	440.	0.	0.	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/30/92-06/30/92	1	42.2	42.2	42.2	42.2	0.	0.	**	**	**	**
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/30/92-06/30/92	1##	0.44	0.44	0.44	0.44	0.	0.	**	**	**	**
01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	06/30/92-06/30/92	1	35.9	35.9	35.9	35.9	0.	0.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/30/92-06/30/92	1	1090.	1090.	1090.	1090.	0.	0.	**	**	**	**
01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	06/30/92-06/30/92	1##	5.55	5.55	5.55	5.55	0.	0.	**	**	**	**
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/30/92-06/30/92	1	14800.	14800.	14800.	14800.	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/30/92-06/30/92	1	24500.	24500.	24500.	24500.	0.	0.	**	**	**	**
04133	MERCURY, BED MAT,DRY WT,SEDIMENT,	06/30/92-06/30/92	1	0.41	0.41	0.41	0.41	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0080

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
81373 SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	06/30/92-06/30/92	1	68.4	68.4	68.4	68.4	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: TUZI0081

NPS Station ID: TUZI0081
 Location: A-16-03 17DBC
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 15060202
 Major Basin:
 Minor Basin:
 RF1 Index: 15060202
 RF3 Index: 15060202013300.00
 Description:

LAT/LON: 34.780837/-112.050837

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.00

Agency: 112WRD
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): 344651112030301
 Within Park Boundary: No

Date Created: 04/14/78

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 5.80
 Distance from RF3: 0.12

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: TUZI0081

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/08/78-02/08/78	1	18.5	18.5	18.5	18.5	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/08/78-02/08/78	1	520.	520.	520.	520.	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)	02/08/78-02/08/78	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	02/08/78-02/08/78	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/08/78-02/08/78	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**
00405 CARBON DIOXIDE (MG/L AS CO2)	02/08/78-02/08/78	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	02/08/78-02/08/78	1	250.	250.	250.	250.	0.	0.	**	**	**	**
00440 BICARBONATE ION (MG/L AS HCO3)	02/08/78-02/08/78	1	300.	300.	300.	300.	0.	0.	**	**	**	**
00445 CARBONATE ION (MG/L AS CO3)	02/08/78-02/08/78	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00631 NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	02/08/78-02/08/78	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00660 PHOSPHATE, ORTHO (MG/L AS PO4)	02/08/78-02/08/78	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	02/08/78-02/08/78	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	02/08/78-02/08/78	1	250.	250.	250.	250.	0.	0.	**	**	**	**
00902 HARDNESS, NON-CARBONATE (MG/L AS CaCO3)	02/08/78-02/08/78	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	02/08/78-02/08/78	1	57.	57.	57.	57.	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	02/08/78-02/08/78	1	27.	27.	27.	27.	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS Na)	02/08/78-02/08/78	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00931 SODIUM ADSORPTION RATIO	02/08/78-02/08/78	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00932 SODIUM, PERCENT	02/08/78-02/08/78	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	02/08/78-02/08/78	1	2.1	2.1	2.1	2.1	0.	0.	**	**	**	**
00940 CHLORIDE, TOTAL IN WATER MG/L	02/08/78-02/08/78	1	19.	19.	19.	19.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	02/08/78-02/08/78	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	02/08/78-02/08/78	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SiO2)	02/08/78-02/08/78	1	16.	16.	16.	16.	0.	0.	**	**	**	**
01000 ARSENIC, DISSOLVED (UG/L AS AS)	02/08/78-02/08/78	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01020 BORON, DISSOLVED (UG/L AS B)	02/08/78-02/08/78	1	50.	50.	50.	50.	0.	0.	**	**	**	**
01046 IRON, DISSOLVED (UG/L AS FE)	02/08/78-02/08/78	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01056 MANGANESE, DISSOLVED (UG/L AS MN)	02/08/78-02/08/78	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
70301 SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	02/08/78-02/08/78	1	291.	291.	291.	291.	0.	0.	**	**	**	**
70303 SOLIDS, DISSOLVED-TONS PER ACRE-FT	02/08/78-02/08/78	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)	02/08/78-02/08/78	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0081

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH																
	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
	Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	10.	1	0	0.00	1	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	860.	1	0	0.00	1	0	0.00									
	Fresh Acute	860.	1	0	0.00	1	0	0.00									
	Drinking Water	250.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	250.	1	0	0.00	1	0	0.00									
00950	FLUORIDE, DISSOLVED AS F	4.	1	0	0.00	1	0	0.00									
01000	ARSENIC, DISSOLVED	360.	1	0	0.00	1	0	0.00									
	Fresh Acute	360.	1	0	0.00	1	0	0.00									
	Drinking Water	50.	1	0	0.00	1	0	0.00									
71900	MERCURY, TOTAL	2.4	1	0	0.00	1	0	0.00									
	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
	Drinking Water	2.	1	0	0.00	1	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0082

NPS Station ID: TUZI0082 LAT/LON: 34.780865/-112.032727

Location: CENTER OF PECKS LAKE 1500 FEET SE OF SITE #18

Station Type: /RESERV/TYPA/AMBNT/MINE

RMI-Indexes:

RMI-Miles:

HUC: 15060202

Major Basin: COLORADO RIVER

Minor Basin: GILA RIVER

RF1 Index: 15060202

RF3 Index: 15060202002505.59

Description:

THE STATION IS LOCATED ON THE CLARKDALE AZ-YAVAPAI COUNTY 7.5 MINUTE SEDIMENT FROM THE CENTER OF PECKS LAKE; 1500 FEET SOUTHEAST OF SITE #18. THIS SITE IS LOCATED OUTSIDE OF THE TUZIGOOT NATIONAL MONUMENT BOUNDARY. THE DATA ARE FROM AN EXPANDED SITE INSPECTION REPORT FOR THE PHELPS DODGE VERDE MINE AREA BY ECOLOGY AND ENVIRONMENT, INC. UNDER CONTRACT BY THE EPA. THE STUDY WAS CONDUCTED TO DETERMINE IF METALS ARE BEING RELEASED INTO THE ENVIRONMENT FROM A 116 ACRE TAILINGS PILE WHICH IS ADJACENT TO THE VERDE RIVER AND "CONTAINS APPROXIMATELY 4 MILLION TONS OF MINING WASTES." NPS STAFF ASSIGNED "J" STORET REMARK CODES TO SOME VALUES THAT WERE ESTIMATED FROM ANALYTICAL MEASUREMENTS. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT TUZI; PO BOX 219; CAMP VERDE AZ 86332 (520-634-5564). DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NPS WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (970-225-3516).

Agency: 11NPSWRD

FIPS State/County: 04025 ARIZONA/YAVAPAI

STORET Station ID(s): TUZI_EPA_01

Within Park Boundary: No

Date Created: 09/26/98

Depth of Water: 0

Elevation: 0

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.01

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: TUZI0082

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00916 CALCIUM, TOTAL (MG/L AS CA)	08/03/93-08/03/93	1	17.6	17.6	17.6	17.6	0.	0.	**	**	**	**
00917 CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/03/93-08/03/93	1	150000.	150000.	150000.	150000.	0.	0.	**	**	**	**
00924 MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/03/93-08/03/93	1	24300.	24300.	24300.	24300.	0.	0.	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)	08/03/93-08/03/93	1	29.8	29.8	29.8	29.8	0.	0.	**	**	**	**
00937 POTASSIUM, TOTAL MG/L AS K)	08/03/93-08/03/93	1	6.46	6.46	6.46	6.46	0.	0.	**	**	**	**
01002 ARSENIC, TOTAL (UG/L AS AS)	08/03/93-08/03/93	1	69.	69.	69.	69.	0.	0.	**	**	**	**
01003 ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/03/93-08/03/93	1	70.1	70.1	70.1	70.1	0.	0.	**	**	**	**
01008 BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/03/93-08/03/93	1	556.	556.	556.	556.	0.	0.	**	**	**	**
01012 BERYLLIUM, TOTAL (UG/L AS BE)	08/03/93-08/03/93	1 ##	0.15	0.15	0.15	0.15	0.	0.	**	**	**	**
01027 CADMIUM, TOTAL (UG/L AS CD)	08/03/93-08/03/93	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01028 CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/03/93-08/03/93	1	6.3	6.3	6.3	6.3	0.	0.	**	**	**	**
01029 CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/03/93-08/03/93	1	23.9	23.9	23.9	23.9	0.	0.	**	**	**	**
01034 CHROMIUM, TOTAL (UG/L AS CR)	08/03/93-08/03/93	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01037 COBALT, TOTAL (UG/L AS CO)	08/03/93-08/03/93	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01043 COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/03/93-08/03/93	1	184.	184.	184.	184.	0.	0.	**	**	**	**
01045 IRON, TOTAL (UG/L AS FE)	08/03/93-08/03/93	1	311.	311.	311.	311.	0.	0.	**	**	**	**
01052 LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/03/93-08/03/93	1	106.	106.	106.	106.	0.	0.	**	**	**	**
01053 MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/03/93-08/03/93	1	363.	363.	363.	363.	0.	0.	**	**	**	**
01059 THALLIUM, TOTAL (UG/L AS TL)	08/03/93-08/03/93	1 ##	0.45	0.45	0.45	0.45	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0082

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01067 NICKEL, TOTAL (UG/L AS NI)	08/03/93-08/03/93	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/03/93-08/03/93	1 ##	1.7	1.7	1.7	1.7	0.	0.	**	**	**	**
01093 ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/03/93-08/03/93	1	216.	216.	216.	216.	0.	0.	**	**	**	**
01097 ANTIMONY, TOTAL (UG/L AS SB)	08/03/93-08/03/93	1 ##	12.	12.	12.	12.	0.	0.	**	**	**	**
01098 ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	08/03/93-08/03/93	1 ##	14.3	14.3	14.3	14.3	0.	0.	**	**	**	**
01105 ALUMINUM, TOTAL (UG/L AS AL)	08/03/93-08/03/93	1	401.	401.	401.	401.	0.	0.	**	**	**	**
01108 ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/03/93-08/03/93	1	20300.	20300.	20300.	20300.	0.	0.	**	**	**	**
01153 TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/03/93-08/03/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01170 IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/03/93-08/03/93	1	18400.	18400.	18400.	18400.	0.	0.	**	**	**	**
04133 MERCURY, BED MAT, DRY WT, SEDIMENT,	08/03/93-08/03/93	1 ##	0.14	0.14	0.14	0.14	0.	0.	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)	08/03/93-08/03/93	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
81373 SOLIDS IN SEDIMENT SAMPLE PERCENT DRY WEIGHT (%)	08/03/93-08/03/93	2	14.35	14.35	14.8	13.9	0.405	0.636	**	**	**	**
81951 TOTAL ORGANIC CARBON(TOC) SEDIMENT DRY WEIGHT MG/KG	08/03/93-08/03/93	1	56100.	56100.	56100.	56100.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0082

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
01002 ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00										1	0	0.00
	Drinking Water	50.	1	1	1.00										1	1	1.00
01012 BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00										1	0	0.00
	Drinking Water	4.	1	0	0.00										1	0	0.00
01027 CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00										1	0	0.00
	Drinking Water	5.	1	0	0.00										1	0	0.00
01034 CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00										1	0	0.00
	Fresh Acute	1400.	1	0	0.00										1	0	0.00
01059 THALLIUM, TOTAL	Drinking Water	2.	1	0	0.00										1	0	0.00
	Fresh Acute	1400.	1	0	0.00										1	0	0.00
01067 NICKEL, TOTAL	Drinking Water	100.	1	0	0.00										1	0	0.00
	Fresh Acute	88.	1	0	0.00										1	0	0.00
01097 ANTIMONY, TOTAL	Drinking Water	6.	0 &	0	0.00										1	0	0.00
	Fresh Acute	2.4	1	0	0.00										1	0	0.00
71900 MERCURY, TOTAL	Drinking Water	2.	1	0	0.00										1	0	0.00
	Fresh Acute	2.	1	0	0.00										1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0083

NPS Station ID: TUZI0083
 Location: PECKS SPRING
 Station Type: /TYPA/AMBNT/SPRING
 RMI-Indexes:
 RMI-Miles:
 HUC: 15060202
 Major Basin: COLORADO RIVER
 Minor Basin: GILA RIVER
 RF1 Index: 15060202025
 RF3 Index: 15060202055001.16
 Description:
 NW 1/4, SE 1/4, SEC 15, T16N, R3E, YAVAPAI CO., NORTHEAST AREA OF

LAT/LON: 34.781255/-112.024309

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 16.870
 RF3 Mile Point: 1.15

TAVASCI MARSH

Agency: 21AZG&F
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): PKS 1
 Within Park Boundary: Yes

Date Created: 09/27/80

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.01

On/Off RF1: ON
 On/Off RF3:

Parameter Inventory for Station: TUZI0083

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/31/79-10/31/79	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00070 TURBIDITY, (JACKSON CANDLE UNITS)	10/31/79-10/31/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	10/31/79-10/31/79	1	4.2	4.2	4.2	4.2	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)	10/31/79-10/31/79	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	10/31/79-10/31/79	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/31/79-10/31/79	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00405 CARBON DIOXIDE (MG/L AS CO2)	10/31/79-10/31/79	1	15.6	15.6	15.6	15.6	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	10/31/79-10/31/79	1	260.	260.	260.	260.	0.	0.	**	**	**	**
00520 RESIDUE, VOLATILE FILTRABLE (MG/L)	10/31/79-10/31/79	1	320.	320.	320.	320.	0.	0.	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/31/79-10/31/79	1	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
00650 PHOSPHATE, TOTAL (MG/L AS PO4)	10/31/79-10/31/79	1	0.27	0.27	0.27	0.27	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	10/31/79-10/31/79	1	296.	296.	296.	296.	0.	0.	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS Ca)	10/31/79-10/31/79	1	3.4	3.4	3.4	3.4	0.	0.	**	**	**	**
00929 SODIUM, TOTAL (MG/L AS Na)	10/31/79-10/31/79	1	4.9	4.9	4.9	4.9	0.	0.	**	**	**	**
00937 POTASSIUM, TOTAL MG/L AS K)	10/31/79-10/31/79	1	2.1	2.1	2.1	2.1	0.	0.	**	**	**	**
00940 CHLORIDE, TOTAL IN WATER MG/L	10/31/79-10/31/79	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	10/31/79-10/31/79	1	14.	14.	14.	14.	0.	0.	**	**	**	**
70304 SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	10/31/79-10/31/79	1	430.	430.	430.	430.	0.	0.	**	**	**	**
71850 NITRATE NITROGEN, TOTAL (MG/L AS NO3)	10/31/79-10/31/79	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0083

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00070 TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	1	0	0.00	1	0	0.00									
00300 OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
00400 PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
	Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00940 CHLORIDE, TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
	Drinking Water	250.	1	0	0.00	1	0	0.00									
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: TUZI0083

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
							Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0084

NPS Station ID: TUZI0084 LAT/LON: 34.781281/-112.037003

Location: CENTER OF PECKS LAKE 1500 FEET SE OF SITE #17

Station Type: /RESERV/TYPA/AMBNT/MINE

RMI-Indexes:

RMI-Miles:

HUC: 15060202

Major Basin: COLORADO RIVER

Minor Basin: GILA RIVER

RF1 Index: 15060202

RF3 Index: 15060202002505.59

Description:

THE STATION IS LOCATED ON THE CLARKDALE AZ-YAVAPAI COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SAMPLES INCLUDE SURFACE WATER AND SEDIMENT FROM THE CENTER OF PECKS LAKE APPROXIMATELY 1500 FEET SOUTHEAST OF SITE #17. THIS SITE IS LOCATED OUTSIDE OF THE TUZIGOOT NATIONAL MONUMENT (TUZI) BOUNDARY. THE DATA ARE FROM AN EXPANDED SITE INSPECTION REPORT FOR THE PHELPS DODGE VERDE MINE AREA BY ECOLOGY AND ENVIRONMENT; INC. UNDER CONTRACT BY THE EPA. THE STUDY WAS CONDUCTED TO DETERMINE IF METALS ARE BEING RELEASED INTO THE ENVIRONMENT FROM A 116 ACRE TAILINGS PILE WHICH IS ADJACENT TO THE VERDE RIVER AND "CONTAINS APPROXIMATELY 4 MILLION TONS OF MINING WASTES." NPS STAFF ASSIGNED "J" STORET REMARK CODES TO VALUES THAT WERE ESTIMATED FROM ANALYTICAL MEASUREMENTS. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT TUZI; PO BOX 219; CAMP VERDE AZ 86332 (520-634-5564). DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NPS WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (970-225-3516).

Agency: 11NPSWRD

FIPS State/County: 04025 ARIZONA/YAVAPAI

STORET Station ID(s): TUZI_EPA_18

Within Park Boundary: No

Date Created: 09/26/98

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 6.29

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.01

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: TUZI0084

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00916 CALCIUM, TOTAL (MG/L AS CA)	08/03/93-08/03/93	1	19.8	19.8	19.8	19.8	0.	0.	**	**	**	**
00917 CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/03/93-08/03/93	1	45500.	45500.	45500.	45500.	0.	0.	**	**	**	**
00924 MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/03/93-08/03/93	1	9180.	9180.	9180.	9180.	0.	0.	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)	08/03/93-08/03/93	1	25.5	25.5	25.5	25.5	0.	0.	**	**	**	**
01002 ARSENIC, TOTAL (UG/L AS AS)	08/03/93-08/03/93	1	37.	37.	37.	37.	0.	0.	**	**	**	**
01003 ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/03/93-08/03/93	1	9.3	9.3	9.3	9.3	0.	0.	**	**	**	**
01008 BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/03/93-08/03/93	1	158.	158.	158.	158.	0.	0.	**	**	**	**
01012 BERYLLIUM, TOTAL (UG/L AS BE)	08/03/93-08/03/93	1 ##	0.15	0.15	0.15	0.15	0.	0.	**	**	**	**
01027 CADMIUM, TOTAL (UG/L AS CD)	08/03/93-08/03/93	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01028 CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/03/93-08/03/93	1 ##	0.85	0.85	0.85	0.85	0.	0.	**	**	**	**
01029 CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/03/93-08/03/93	1	13.9	13.9	13.9	13.9	0.	0.	**	**	**	**
01034 CHROMIUM, TOTAL (UG/L AS CR)	08/03/93-08/03/93	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01037 COBALT, TOTAL (UG/L AS CO)	08/03/93-08/03/93	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01042 COPPER, TOTAL (UG/L AS CU)	08/03/93-08/03/93	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01043 COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/03/93-08/03/93	1	40.	40.	40.	40.	0.	0.	**	**	**	**
01045 IRON, TOTAL (UG/L AS FE)	08/03/93-08/03/93	1 ##	3.	3.	3.	3.	0.	0.	**	**	**	**
01051 LEAD, TOTAL (UG/L AS PB)	08/03/93-08/03/93	1 ##	0.35	0.35	0.35	0.35	0.	0.	**	**	**	**
01052 LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/03/93-08/03/93	1	21.1	21.1	21.1	21.1	0.	0.	**	**	**	**
01053 MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/03/93-08/03/93	1	176.	176.	176.	176.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0084

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th	
01059	THALLIUM, TOTAL (UG/L AS TL)	08/03/93-08/03/93	1 ##	0.45	0.45	0.45	0.45	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	08/03/93-08/03/93	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	08/03/93-08/03/93	1 ##	1.45	1.45	1.45	1.45	0.	0.	**	**	**	**
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/03/93-08/03/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/03/93-08/03/93	1	51.5	51.5	51.5	51.5	0.	0.	**	**	**	**
01097	ANTIMONY, TOTAL (UG/L AS SB)	08/03/93-08/03/93	1 ##	12.	12.	12.	12.	0.	0.	**	**	**	**
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/03/93-08/03/93	1	5380.	5380.	5380.	5380.	0.	0.	**	**	**	**
01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/03/93-08/03/93	1 ##	0.16	0.16	0.16	0.16	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/03/93-08/03/93	1	6650.	6650.	6650.	6650.	0.	0.	**	**	**	**
04133	MERCURY, BED MAT, DRY WT, SEDIMENT,	08/03/93-08/03/93	1 ##	0.06	0.06	0.06	0.06	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	08/03/93-08/03/93	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
81373	SOLIDS IN SEDIMENT SAMPLE PERCENT DRY WEIGHT (%)	08/03/93-08/03/93	2	41.25	41.25	41.4	41.1	0.045	0.212	**	**	**	**
81951	TOTAL ORGANIC CARBON(TOC) SEDIMENT DRY WEIGHT MG/KG	08/03/93-08/03/93	1	14300.	14300.	14300.	14300.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0084

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00									1	0	0.00
		Drinking Water	50.	1	0	0.00									1	0	0.00
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00									1	0	0.00
		Drinking Water	4.	1	0	0.00									1	0	0.00
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00									1	0	0.00
		Drinking Water	5.	1	0	0.00									1	0	0.00
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00									1	0	0.00
01042	COPPER, TOTAL	Fresh Acute	18.	1	0	0.00									1	0	0.00
		Drinking Water	1300.	1	0	0.00									1	0	0.00
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00									1	0	0.00
		Drinking Water	15.	1	0	0.00									1	0	0.00
01059	THALLIUM, TOTAL	Fresh Acute	1400.	1	0	0.00									1	0	0.00
		Drinking Water	2.	1	0	0.00									1	0	0.00
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00									1	0	0.00
		Drinking Water	100.	1	0	0.00									1	0	0.00
01077	SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00									1	0	0.00
		Drinking Water	100.	1	0	0.00									1	0	0.00
01097	ANTIMONY, TOTAL	Fresh Acute	88.	1	0	0.00									1	0	0.00
		Drinking Water	6.	0 &	0	0.00											
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00									1	0	0.00
		Drinking Water	2.	1	0	0.00									1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0085

NPS Station ID: TUZI0085
 Location: PECKS LAKE
 Station Type: /TYPA/AMBNT/LAKE
 RMI-Indexes:
 RMI-Miles:
 HUC: 15060202
 Major Basin: COLORADO RIVER
 Minor Basin: GILA**SALT**VERDE
 RF1 Index: 15060202025
 RF3 Index: 15060202002512.18
 Description:

LAT/LON: 34.783059/-112.043893

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 14.740
 RF3 Mile Point: 12.56

Agency: 21ARIZ
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): 702800000000450/VR 014
 Within Park Boundary: No

Date Created: / /

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.02

On/Off RF1: ON
 On/Off RF3:

LAT 34 46'59", LONG 112 02'38", NE1/4 SE1/4, SEC 17, T16N, R3E, YAVAPAI CO, NORTH OF CLARKDALE, AZ, ON ROAD TO TAPCO POWER PLANT,
 NORTHWEST CORNER OF LAKE, AT 7TH TEE OF VERDE VALLEY OUTING CLUB.

Parameter Inventory for Station: TUZI0085

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/07/73-02/07/73	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/07/73-02/07/73	1	435.	435.	435.	435.	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	02/07/73-02/07/73	1	206.	206.	206.	206.	0.	0.	**	**	**	**
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	02/07/73-02/07/73	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	02/07/73-02/07/73	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00650 PHOSPHATE, TOTAL (MG/L AS PO4)	02/07/73-02/07/73	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	02/07/73-02/07/73	1	182.	182.	182.	182.	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	02/07/73-02/07/73	1	29.	29.	29.	29.	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	02/07/73-02/07/73	1	26.	26.	26.	26.	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS Na)	02/07/73-02/07/73	1	28.	28.	28.	28.	0.	0.	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	02/07/73-02/07/73	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	02/07/73-02/07/73	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	02/07/73-02/07/73	1	0.22	0.22	0.22	0.22	0.	0.	**	**	**	**
01042 COPPER, TOTAL (UG/L AS CU)	02/07/73-02/07/73	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01045 IRON, TOTAL (UG/L AS FE)	02/07/73-02/07/73	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
70301 SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	02/07/73-02/07/73	1	243.	243.	243.	243.	0.	0.	**	**	**	**
71850 NITRATE NITROGEN,TOTAL (MG/L AS NO3)	02/07/73-02/07/73	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0085

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
00615 NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	1	0	0.00	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
	Drinking Water	250.	1	0	0.00	1	0	0.00									
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00									
00950 FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00	1	0	0.00									
01042 COPPER, TOTAL	Fresh Acute	18.	0 &	0	0.00												
	Drinking Water	1300.	1	0	0.00	1	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: TUZI0085

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
							Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0086

NPS Station ID: TUZI0086 Location: NORTHWESTERN REGION OF PECKS LAKE Station Type: /RESERV/TYPA/AMBNT/SOLIDS/MINE RMI-Indexes: RMI-Miles: HUC: 15060202 Major Basin: COLORADO RIVER Minor Basin: GILA RIVER RF1 Index: 15060202 RF3 Index: 15060202002505.59 Description: THE STATION IS LOCATED ON THE CLARKDALE AZ-YAVAPAI COUNTY 7.5 MINUTE NORTHWESTERN REGION OF PECKS LAKE. THE SITE IS LOCATED OUTSIDE OF THE SCREENING INVESTIGATION REPORT FOR THE PHELPS DODGE VERDE MINE AREA WAS CONDUCTED TO DETERMINE IF METALS ARE BEING RELEASED INTO THE RIVER AND "CONTAINS APPROXIMATELY 4 MILLION TONS OF MINING WASTES." ESTIMATED FROM ANALYTICAL MEASUREMENTS. FOR MORE INFORMATION CONTACT (520-634-5564). DATA WERE PROCESSED AND UPLOADED TO STORET BY 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (970-225-3516).	LAT/LON: 34.783087/-112.044337 Depth of Water: 0 Elevation: 0 RF1 Mile Point: 0.000 RF3 Mile Point: 6.29	Agency: 11NPSWRD FIPS State/County: 04025 ARIZONA/YAVAPAI STORET Station ID(s): TUZI_EPA_EE02 Within Park Boundary: No Aquifer: Water Body Id: ECO Region: Distance from RF1: 0.00 Distance from RF3: 0.01
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Date Created: 11/28/98

On/Off RF1:
On/Off RF3:

Parameter Inventory for Station: TUZI0086

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00917 CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	06/29/92-06/29/92	1	24500.	24500.	24500.	24500.	0.	0.	**	**	**	**
00924 MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	06/29/92-06/29/92	1	2670.	2670.	2670.	2670.	0.	0.	**	**	**	**
01003 ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/29/92-06/29/92	1	6.6	6.6	6.6	6.6	0.	0.	**	**	**	**
01029 CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/29/92-06/29/92	1	5.8	5.8	5.8	5.8	0.	0.	**	**	**	**
01043 COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/29/92-06/29/92	1	28.	28.	28.	28.	0.	0.	**	**	**	**
01052 LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/29/92-06/29/92	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
01053 MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/29/92-06/29/92	1	36.	36.	36.	36.	0.	0.	**	**	**	**
01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/29/92-06/29/92	1 ##	0.335	0.335	0.335	0.335	0.	0.	**	**	**	**
01108 ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/29/92-06/29/92	1	1750.	1750.	1750.	1750.	0.	0.	**	**	**	**
01148 SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/29/92-06/29/92	1 ##	0.55	0.55	0.55	0.55	0.	0.	**	**	**	**
01153 TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	06/29/92-06/29/92	1 ##	0.055	0.055	0.055	0.055	0.	0.	**	**	**	**
01170 IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/29/92-06/29/92	1	2640.	2640.	2640.	2640.	0.	0.	**	**	**	**
04133 MERCURY, BED MAT,DRY WT,SEDIMENT,	06/29/92-06/29/92	1 ##	0.055	0.055	0.055	0.055	0.	0.	**	**	**	**
81373 SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	06/29/92-06/29/92	1	89.9	89.9	89.9	89.9	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: TUZI0087

NPS Station ID: TUZI0087 LAT/LON: 34.784393/-112.039504

Location: CENTER OF PECKS LAKE 1500 FEET SE OF SITE #16

Station Type: /RESERV/TYPA/AMBNT/MINE

RMI-Indexes:

RMI-Miles:

HUC: 15060202

Major Basin: COLORADO RIVER

Minor Basin: GILA RIVER

RF1 Index: 15060202

RF3 Index: 15060202002505.59

Description:

THE STATION IS LOCATED ON THE CLARKDALE AZ-YAVAPAI COUNTY 7.5 MINUTE SEDIMENT FROM THE CENTER OF PECKS LAKE; 1500 FEET SOUTHEAST OF SITE #16. BOUNDARY. THE DATA ARE FROM AN EXPANDED SITE INSPECTION REPORT FOR UNDER CONTRACT BY THE EPA. THE STUDY WAS CONDUCTED TO DETERMINE IF PILE WHICH IS ADJACENT TO THE VERDE RIVER AND "CONTAINS APPROXIMATELY CODES TO SOME VALUES THAT WERE ESTIMATED FROM ANALYTICAL MEASUREMENTS. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT TUZI; PO BOX 219; CAMP VERDE AZ 86332 (520-634-5564). DATA WERE PROCESSED AND UPLOADED 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (970-225-3516).

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 6.29

Agency: 11NPSWRD

FIPS State/County: 04025 ARIZONA/YAVAPAI

STORET Station ID(s): TUZI_EPA_17

Within Park Boundary: No

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.01

Date Created: 09/26/98

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: TUZI0087

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00916 CALCIUM, TOTAL (MG/L AS CA)	08/03/93-08/03/93	1	27.1	27.1	27.1	27.1	0.	0.	**	**	**	**
00917 CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/03/93-08/03/93	1	193000.	193000.	193000.	193000.	0.	0.	**	**	**	**
00924 MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/03/93-08/03/93	1	17100.	17100.	17100.	17100.	0.	0.	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)	08/03/93-08/03/93	1	25.6	25.6	25.6	25.6	0.	0.	**	**	**	**
01002 ARSENIC, TOTAL (UG/L AS AS)	08/03/93-08/03/93	1	28.	28.	28.	28.	0.	0.	**	**	**	**
01003 ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/03/93-08/03/93	1	65.3	65.3	65.3	65.3	0.	0.	**	**	**	**
01008 BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/03/93-08/03/93	1	730.	730.	730.	730.	0.	0.	**	**	**	**
01012 BERYLLIUM, TOTAL (UG/L AS BE)	08/03/93-08/03/93	1 ##	0.15	0.15	0.15	0.15	0.	0.	**	**	**	**
01013 BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	08/03/93-08/03/93	1 ##	0.275	0.275	0.275	0.275	0.	0.	**	**	**	**
01027 CADMIUM, TOTAL (UG/L AS CD)	08/03/93-08/03/93	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01028 CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/03/93-08/03/93	1 ##	4.4	4.4	4.4	4.4	0.	0.	**	**	**	**
01029 CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/03/93-08/03/93	1	27.1	27.1	27.1	27.1	0.	0.	**	**	**	**
01034 CHROMIUM, TOTAL (UG/L AS CR)	08/03/93-08/03/93	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01037 COBALT, TOTAL (UG/L AS CO)	08/03/93-08/03/93	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01042 COPPER, TOTAL (UG/L AS CU)	08/03/93-08/03/93	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01043 COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/03/93-08/03/93	1	178.	178.	178.	178.	0.	0.	**	**	**	**
01051 LEAD, TOTAL (UG/L AS PB)	08/03/93-08/03/93	1 ##	0.35	0.35	0.35	0.35	0.	0.	**	**	**	**
01052 LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/03/93-08/03/93	1	126.	126.	126.	126.	0.	0.	**	**	**	**
01053 MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/03/93-08/03/93	1	664.	664.	664.	664.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0087

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th	
01059	THALLIUM, TOTAL (UG/L AS TL)	08/03/93-08/03/93	1 ##	0.45	0.45	0.45	0.45	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	08/03/93-08/03/93	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	08/03/93-08/03/93	1 ##	1.45	1.45	1.45	1.45	0.	0.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/03/93-08/03/93	1	228.	228.	228.	228.	0.	0.	**	**	**	**
01097	ANTIMONY, TOTAL (UG/L AS SB)	08/03/93-08/03/93	1 ##	12.	12.	12.	12.	0.	0.	**	**	**	**
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/03/93-08/03/93	1	15900.	15900.	15900.	15900.	0.	0.	**	**	**	**
01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/03/93-08/03/93	1 ##	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/03/93-08/03/93	1	15200.	15200.	15200.	15200.	0.	0.	**	**	**	**
04133	MERCURY, BED MAT,DRY WT,SEDIMENT,	08/03/93-08/03/93	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	08/03/93-08/03/93	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	08/03/93-08/03/93	2	9.6	9.6	9.7	9.5	0.02	0.141	**	**	**	**
81951	TOTAL ORGANIC CARBON(TOC)SEDIMENT DRY WEIGHT MG/KG	08/03/93-08/03/93	1	20100.	20100.	20100.	20100.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0087

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00									1	0	0.00
		Drinking Water	50.	1	0	0.00									1	0	0.00
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00									1	0	0.00
		Drinking Water	4.	1	0	0.00									1	0	0.00
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00									1	0	0.00
		Drinking Water	5.	1	0	0.00									1	0	0.00
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00									1	0	0.00
01042	COPPER, TOTAL	Fresh Acute	18.	1	0	0.00									1	0	0.00
		Drinking Water	1300.	1	0	0.00									1	0	0.00
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00									1	0	0.00
		Drinking Water	15.	1	0	0.00									1	0	0.00
01059	THALLIUM, TOTAL	Fresh Acute	1400.	1	0	0.00									1	0	0.00
		Drinking Water	2.	1	0	0.00									1	0	0.00
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00									1	0	0.00
		Drinking Water	100.	1	0	0.00									1	0	0.00
01077	SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00									1	0	0.00
		Drinking Water	100.	1	0	0.00									1	0	0.00
01097	ANTIMONY, TOTAL	Fresh Acute	88.	1	0	0.00									1	0	0.00
		Drinking Water	6.	0 &	0	0.00											
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00									1	0	0.00
		Drinking Water	2.	1	0	0.00									1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0088

NPS Station ID: TUZI0088
 Location: PECKS LAKE
 Station Type: /TYPA/AMBNT/LAKE
 RMI-Indexes:
 RMI-Miles:
 HUC: 15060202
 Major Basin: COLORADO RIVER
 Minor Basin: GILA RIVER
 RF1 Index: 15060202025
 RF3 Index: 15060202077402.48
 Description:
 SE 1/4, NW 1/4, SEC 16, T16N, R3E,YAVAPAI CO., MIDLAKE ON THE NORTH

LAT/LON: 34.784865/-112.041671

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 16.420
 RF3 Mile Point: 2.48

Agency: 21AZG&F
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): PKL 1
 Within Park Boundary: No

Date Created: 09/27/80

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.09

On/Off RF1: ON
 On/Off RF3:

BEND OF THE LAKE, CLARKDALE,AZ.

Parameter Inventory for Station: TUZI0088

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/19/79-04/30/80	4	11.	12.	20.	6.	34.667	5.888	**	**	**	**
00070 TURBIDITY, (JACKSON CANDLE UNITS)	07/19/79-04/30/80	4	25.	28.5	50.	14.	233.	15.264	**	**	**	**
00078 TRANSPARENCY, SECCHI DISC (METERS)	10/31/79-10/31/79	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	07/19/79-04/30/80	4	9.25	9.425	11.	8.2	1.389	1.179	**	**	**	**
00310 BOD, 5 DAY, 20 DEG C MG/L	10/31/79-04/30/80	3	3.	3.067	3.2	3.	0.013	0.115	**	**	**	**
00400 PH (STANDARD UNITS)	07/19/79-04/30/80	4	7.75	7.775	8.1	7.5	0.102	0.32	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	07/19/79-04/30/80	4	7.682	7.693	8.1	7.5	0.112	0.334	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/19/79-04/30/80	4	0.021	0.02	0.032	0.008	0.	0.013	**	**	**	**
00403 PH, LAB, STANDARD UNITS SU	07/19/79-07/19/79	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	07/19/79-07/19/79	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/19/79-07/19/79	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
00405 CARBON DIOXIDE (MG/L AS CO2)	10/31/79-10/31/79	1	3.8	3.8	3.8	3.8	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	10/31/79-04/30/80	3	220.	193.333	240.	120.	4133.333	64.291	**	**	**	**
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	07/19/79-07/19/79	1	300.	300.	300.	300.	0.	0.	**	**	**	**
00520 RESIDUE, VOLATILE FILTRABLE (MG/L)	10/31/79-04/30/80	3	300.	293.333	300.	280.	133.333	11.547	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/19/79-04/30/80	4	1.03	0.977	1.4	0.45	0.183	0.428	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	07/19/79-04/30/80	2	0.055	0.055	0.06	0.05	0.	0.007	**	**	**	**
00650 PHOSPHATE, TOTAL (MG/L AS PO4)	07/19/79-04/30/80	4	0.365	0.38	0.58	0.21	0.032	0.179	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	07/19/79-04/30/80	4	282.	351.	600.	240.	28164.	167.821	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS Ca)	10/31/79-04/30/80	3	18.	14.833	23.	3.5	102.583	10.128	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)	01/16/80-04/30/80	2	11.5	11.5	15.	8.	24.5	4.95	**	**	**	**
00929 SODIUM, TOTAL (MG/L AS Na)	10/31/79-04/30/80	3	11.	10.4	15.	5.2	24.28	4.927	**	**	**	**
00937 POTASSIUM, TOTAL MG/L AS K)	10/31/79-04/30/80	3	3.5	3.5	4.	3.	0.25	0.5	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	07/19/79-04/30/80	4	18.	71.	230.	18.	11236.	106.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	07/19/79-04/30/80	4	19.5	19.25	22.	16.	7.583	2.754	**	**	**	**
70304 SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	10/31/79-04/30/80	3	400.	416.667	450.	400.	833.333	28.868	**	**	**	**
71850 NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/31/79-01/16/80	2	0.035	0.035	0.05	0.02	0.	0.021	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0088

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	50.	4	1	0.25	2	0	0.00	1	0	0.00				1	1	1.00
00300	OXYGEN, DISSOLVED	4.	4	0	0.00	2	0	0.00	1	0	0.00				1	0	0.00
00400	PH	9.	4	0	0.00	2	0	0.00	1	0	0.00				1	0	0.00
	Other-Lo Lim.	6.5	4	0	0.00	2	0	0.00	1	0	0.00				1	0	0.00
00403	PH, LAB	9.	1	0	0.00										1	0	0.00
	Other-Lo Lim.	6.5	1	0	0.00										1	0	0.00
00620	NITRATE NITROGEN, TOTAL AS N	10.	2	0	0.00				1	0	0.00				1	0	0.00
00940	CHLORIDE, TOTAL IN WATER	860.	4	0	0.00	2	0	0.00	1	0	0.00				1	0	0.00
	Fresh Acute	250.	4	0	0.00	2	0	0.00	1	0	0.00				1	0	0.00
00945	SULFATE, TOTAL (AS SO4)	250.	4	0	0.00	2	0	0.00	1	0	0.00				1	0	0.00
71850	NITRATE NITROGEN, TOTAL (AS NO3)	44.	2	0	0.00	2	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0089

NPS Station ID: TUZI0089 LAT/LON: 34.784892/-112.043782
 Location: CENTER OF PECKS LAKE NEAR NORTHERNMOST REACH
 Station Type: /RESERV/TYPA/AMBNT/MINE
 RMI-Indexes:
 RMI-Miles:
 HUC: 15060202 Depth of Water: 0
 Major Basin: COLORADO RIVER Elevation: 0
 Minor Basin: GILA RIVER
 RF1 Index: 15060202 RF1 Mile Point: 0.000
 RF3 Index: 15060202002505.59 RF3 Mile Point: 6.29

Agency: 11NPSWRD
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): TUZI_EPA_15
 Within Park Boundary: No

Date Created: 09/26/98

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.01

On/Off RF1:
 On/Off RF3:

Description:
 THE STATION IS LOCATED ON THE CLARKDALE AZ-YAVAPAI COUNTY 7.5 MINUTE SEDIMENT FROM THE CENTER OF PECKS LAKE NEAR THE NORTHERNMOST REACH. BOUNDARY. THE DATA ARE FROM AN EXPANDED SITE INSPECTION REPORT FOR UNDER CONTRACT BY THE EPA. THE STUDY WAS CONDUCTED TO DETERMINE IF PILE WHICH IS ADJACENT TO THE VERDE RIVER AND "CONTAINS APPROXIMATELY CODES TO SOME VALUES THAT WERE ESTIMATED FROM ANALYTICAL MEASUREMENTS. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT TUZI; PO BOX 219; CAMP VERDE AZ 86332 (520-634-5564). DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NPS WATER RESOURCES DIVISION;
 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (970-225-3516).

Parameter Inventory for Station: TUZI0089

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00916 CALCIUM, TOTAL (MG/L AS CA)	08/03/93-08/03/93	1	39.5	39.5	39.5	39.5	0.	0.	**	**	**	**
00917 CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/03/93-08/03/93	1	172000.	172000.	172000.	172000.	0.	0.	**	**	**	**
00924 MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/03/93-08/03/93	1	13800.	13800.	13800.	13800.	0.	0.	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)	08/03/93-08/03/93	1	25.	25.	25.	25.	0.	0.	**	**	**	**
00938 POTASSIUM IN BOTTOM DEPOSITS (MG/KG AS K DRY WGT)	08/03/93-08/03/93	1	4740.	4740.	4740.	4740.	0.	0.	**	**	**	**
01002 ARSENIC, TOTAL (UG/L AS AS)	08/03/93-08/03/93	1	24.	24.	24.	24.	0.	0.	**	**	**	**
01003 ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/03/93-08/03/93	1	37.7	37.7	37.7	37.7	0.	0.	**	**	**	**
01008 BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	08/03/93-08/03/93	1	558.	558.	558.	558.	0.	0.	**	**	**	**
01012 BERYLLIUM, TOTAL (UG/L AS BE)	08/03/93-08/03/93	1 ##	0.15	0.15	0.15	0.15	0.	0.	**	**	**	**
01027 CADMIUM, TOTAL (UG/L AS CD)	08/03/93-08/03/93	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01028 CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/03/93-08/03/93	1 ##	2.05	2.05	2.05	2.05	0.	0.	**	**	**	**
01029 CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/03/93-08/03/93	1	34.8	34.8	34.8	34.8	0.	0.	**	**	**	**
01034 CHROMIUM, TOTAL (UG/L AS CR)	08/03/93-08/03/93	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01037 COBALT, TOTAL (UG/L AS CO)	08/03/93-08/03/93	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01042 COPPER, TOTAL (UG/L AS CU)	08/03/93-08/03/93	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01043 COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/03/93-08/03/93	1	100.	100.	100.	100.	0.	0.	**	**	**	**
01045 IRON, TOTAL (UG/L AS FE)	08/03/93-08/03/93	1	201.	201.	201.	201.	0.	0.	**	**	**	**
01052 LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/03/93-08/03/93	1	53.	53.	53.	53.	0.	0.	**	**	**	**
01053 MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/03/93-08/03/93	1	730.	730.	730.	730.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0089

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01055 MANGANESE, TOTAL (UG/L AS MN)	08/03/93-08/03/93	1	16.4	16.4	16.4	16.4	0.	0.	**	**	**	**
01059 THALLIUM, TOTAL (UG/L AS TL)	08/03/93-08/03/93	1 ##	0.45	0.45	0.45	0.45	0.	0.	**	**	**	**
01067 NICKEL, TOTAL (UG/L AS NI)	08/03/93-08/03/93	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG, DRY WGT)	08/03/93-08/03/93	1	34.6	34.6	34.6	34.6	0.	0.	**	**	**	**
01077 SILVER, TOTAL (UG/L AS AG)	08/03/93-08/03/93	1 ##	1.45	1.45	1.45	1.45	0.	0.	**	**	**	**
01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	08/03/93-08/03/93	1 ##	1.25	1.25	1.25	1.25	0.	0.	**	**	**	**
01088 VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	08/03/93-08/03/93	1	44.8	44.8	44.8	44.8	0.	0.	**	**	**	**
01093 ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/03/93-08/03/93	1	124.	124.	124.	124.	0.	0.	**	**	**	**
01097 ANTIMONY, TOTAL (UG/L AS SB)	08/03/93-08/03/93	1 ##	12.	12.	12.	12.	0.	0.	**	**	**	**
01105 ALUMINUM, TOTAL (UG/L AS AL)	08/03/93-08/03/93	1	231.	231.	231.	231.	0.	0.	**	**	**	**
01108 ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/03/93-08/03/93	1	22500.	22500.	22500.	22500.	0.	0.	**	**	**	**
01147 SELENIUM, TOTAL (UG/L AS SE)	08/03/93-08/03/93	1 ##	0.45	0.45	0.45	0.45	0.	0.	**	**	**	**
01153 TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	08/03/93-08/03/93	1 ##	0.35	0.35	0.35	0.35	0.	0.	**	**	**	**
01170 IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/03/93-08/03/93	1	19700.	19700.	19700.	19700.	0.	0.	**	**	**	**
04133 MERCURY, BED MAT, DRY WT, SEDIMENT,	08/03/93-08/03/93	1 ##	0.115	0.115	0.115	0.115	0.	0.	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)	08/03/93-08/03/93	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
81373 SOLIDS IN SEDIMENT SAMPLE PERCENT DRY WEIGHT (%)	08/03/93-08/03/93	2	20.25	20.25	20.3	20.2	0.005	0.071	**	**	**	**
81951 TOTAL ORGANIC CARBON(TOC) SEDIMENT DRY WEIGHT MG/KG	08/03/93-08/03/93	1	33600.	33600.	33600.	33600.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0089

Parameter	Std. Type	Std. Value	Total			Prop.			-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
			Obs	Exceed Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
01002 ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00										1	0	0.00			
	Drinking Water	50.	1	0	0.00										1	0	0.00			
01012 BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00										1	0	0.00			
	Drinking Water	4.	1	0	0.00										1	0	0.00			
01027 CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00										1	0	0.00			
	Drinking Water	5.	1	0	0.00										1	0	0.00			
01034 CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00										1	0	0.00			
	Fresh Acute	18.	1	0	0.00										1	0	0.00			
01042 COPPER, TOTAL	Drinking Water	1300.	1	0	0.00										1	0	0.00			
	Fresh Acute	1400.	1	0	0.00										1	0	0.00			
01059 THALLIUM, TOTAL	Drinking Water	2.	1	0	0.00										1	0	0.00			
	Fresh Acute	1400.	1	0	0.00										1	0	0.00			
01067 NICKEL, TOTAL	Drinking Water	100.	1	0	0.00										1	0	0.00			
	Fresh Acute	4.1	1	0	0.00										1	0	0.00			
01077 SILVER, TOTAL	Drinking Water	100.	1	0	0.00										1	0	0.00			
	Fresh Acute	88.	1	0	0.00										1	0	0.00			
01097 ANTIMONY, TOTAL	Drinking Water	6.	0 &	0	0.00															
	Fresh Acute	20.	1	0	0.00										1	0	0.00			
01147 SELENIUM, TOTAL	Drinking Water	50.	1	0	0.00										1	0	0.00			
	Fresh Acute	2.4	1	0	0.00										1	0	0.00			
71900 MERCURY, TOTAL	Drinking Water	2.	1	0	0.00										1	0	0.00			
	Fresh Acute	2.	1	0	0.00										1	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0090

NPS Station ID: TUZI0090
 Location: VERDE R 0.65 MI AB BITTER CK AT CLARKDALE AZ
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 15060202
 Major Basin:
 Minor Basin:
 RF1 Index: 15060202025
 RF3 Index: 15060202006600.00
 Description:

LAT/LON: 34.786392/-112.050837

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 14.940
 RF3 Mile Point: 0.00

Agency: 112WRD
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): 344711112030300
 Within Park Boundary: No

Date Created: 12/02/81

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.30
 Distance from RF3: 0.01

On/Off RF1: ON
 On/Off RF3:

Parameter Inventory for Station: TUZI0090

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/25/81-02/25/81	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/25/81-02/25/81	1	500.	500.	500.	500.	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)	02/25/81-02/25/81	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	02/25/81-02/25/81	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/25/81-02/25/81	1	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	02/25/81-02/25/81	1	200.	200.	200.	200.	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	02/25/81-02/25/81	1	39.	39.	39.	39.	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	02/25/81-02/25/81	1	24.	24.	24.	24.	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS NA)	02/25/81-02/25/81	1	24.	24.	24.	24.	0.	0.	**	**	**	**
00931 SODIUM ADSORPTION RATIO	02/25/81-02/25/81	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SiO2)	02/25/81-02/25/81	1	16.	16.	16.	16.	0.	0.	**	**	**	**
01000 ARSENIC, DISSOLVED (UG/L AS AS)	02/25/81-02/25/81	1	15.	15.	15.	15.	0.	0.	**	**	**	**
01005 BARIUM, DISSOLVED (UG/L AS BA)	02/25/81-02/25/81	1	150.	150.	150.	150.	0.	0.	**	**	**	**
01010 BERYLLIUM, DISSOLVED (UG/L AS BE)	02/25/81-02/25/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01025 CADMIUM, DISSOLVED (UG/L AS CD)	02/25/81-02/25/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01032 CHROMIUM, HEXAVALENT (UG/L AS CR)	02/25/81-02/25/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01035 COBALT, DISSOLVED (UG/L AS CO)	02/25/81-02/25/81	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01040 COPPER, DISSOLVED (UG/L AS CU)	02/25/81-02/25/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01046 IRON, DISSOLVED (UG/L AS FE)	02/25/81-02/25/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01049 LEAD, DISSOLVED (UG/L AS PB)	02/25/81-02/25/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01056 MANGANESE, DISSOLVED (UG/L AS MN)	02/25/81-02/25/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01060 MOLYBDENUM, DISSOLVED (UG/L AS MO)	02/25/81-02/25/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01080 STRONTIUM, DISSOLVED (UG/L AS SR)	02/25/81-02/25/81	1	200.	200.	200.	200.	0.	0.	**	**	**	**
01085 VANADIUM, DISSOLVED (UG/L AS V)	02/25/81-02/25/81	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01090 ZINC, DISSOLVED (UG/L AS ZN)	02/25/81-02/25/81	1	12.	12.	12.	12.	0.	0.	**	**	**	**
01106 ALUMINUM, DISSOLVED (UG/L AS AL)	02/25/81-02/25/81	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01130 LITHIUM, DISSOLVED (UG/L AS LI)	02/25/81-02/25/81	1	31.	31.	31.	31.	0.	0.	**	**	**	**
01145 SELENIUM, DISSOLVED (UG/L AS SE)	02/25/81-02/25/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
71890 MERCURY, DISSOLVED (UG/L AS HG)	02/25/81-02/25/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
82082 DEUTERIUM/PROTIUM (H-2/H-1) STABLE ISOTOPE RATIO	02/25/81-02/25/81	1	-79.	-79.	-79.	-79.	0.	0.	**	**	**	**
82085 OXYGEN-18/OXYGEN-16 STABLE ISOTOPE RATIO PER MIL	02/25/81-02/25/81	1	-10.9	-10.9	-10.9	-10.9	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0090

Parameter		Std. Type	Std. Value	Total		Exceed		Prop.		-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
				Obs	Standard	Exceed	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.		
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00						
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00						
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	1	0	0.00							1	0	0.00						
		Drinking Water	50.	1	0	0.00							1	0	0.00						
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00							1	0	0.00						
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00							1	0	0.00						
		Drinking Water	4.	1	0	0.00							1	0	0.00						
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0	0.00							1	0	0.00						
		Drinking Water	5.	1	0	0.00							1	0	0.00						
01032	CHROMIUM, HEXAVALENT	Fresh Acute	16.	1	0	0.00							1	0	0.00						
		Drinking Water	100.	1	0	0.00							1	0	0.00						
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00							1	0	0.00						
		Drinking Water	1300.	1	0	0.00							1	0	0.00						
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00							1	0	0.00						
		Drinking Water	15.	1	0	0.00							1	0	0.00						
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00							1	0	0.00						
		Drinking Water	5000.	1	0	0.00							1	0	0.00						
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00							1	0	0.00						
		Drinking Water	50.	1	0	0.00							1	0	0.00						
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	1	0	0.00							1	0	0.00						
		Drinking Water	2.	1	0	0.00							1	0	0.00						

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0091

NPS Station ID: TUZI0091

Location: "NO INFORMATION IN THE STATION HEADER FILE."

Station Type: /TYPA/AMBNT/STREAM

RMI-Indexes:

RMI-Miles:

HUC: 15060202

Major Basin:

Minor Basin:

RF1 Index: 15060202

RF3 Index: 15060202002514.22

Description:

LAT/LON: 34.786392/-112.050837

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 14.62

Agency: 112WRD

FIPS State/County: 04025 ARIZONA/YAVAPAI

STORET Station ID(s): 344711112030301

Within Park Boundary: No

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.02

Date Created: 12/02/81

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: TUZI0091

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
***** No Parameter Data Available for this Station *****												

Station Inventory for Station: TUZI0092

NPS Station ID: TUZI0092 LAT/LON: 34.787642/-112.054421

Location: VERDE RIVER DOWNSTREAM OF SLAG HEAP

Station Type: /TYPA/AMBNT/STREAM/SOLIDS/MINE

RMI-Indexes:

RMI-Miles:

HUC: 15060202

Major Basin: COLORADO RIVER

Minor Basin: GILA RIVER

RF1 Index: 15060202

RF3 Index: 15060202002505.59

Description:

THE STATION IS LOCATED ON THE CLARKDALE AZ-YAVAPAI COUNTY 7.5 MINUTE VERDE RIVER DOWNSTREAM OF THE SLAG HEAP. THE SITE IS LOCATED OUTSIDE SCREENING INVESTIGATION REPORT FOR THE PHELPS DODGE VERDE MINE AREA WAS CONDUCTED TO DETERMINE IF METALS ARE BEING RELEASED INTO THE RIVER AND "CONTAINS APPROXIMATELY 4 MILLION TONS OF MINING WASTES." ESTIMATED FROM ANALYTICAL MEASUREMENTS. FOR MORE INFORMATION CONTACT (520-634-5564). DATA WERE PROCESSED AND UPLOADED TO STORET BY 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (970-225-3516).

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 6.29

Agency: 11NPSWRD

FIPS State/County: 04025 ARIZONA/YAVAPAI

STORET Station ID(s): TUZI_EPA_EE06

Within Park Boundary: No

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.01

Date Created: 11/28/98

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: TUZI0092

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	06/29/92-06/29/92	1	61400.	61400.	61400.	61400.	0.	0.	**	**	**	**
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	06/29/92-06/29/92	1	10800.	10800.	10800.	10800.	0.	0.	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/29/92-06/29/92	1	3.8	3.8	3.8	3.8	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/29/92-06/29/92	1	94.4	94.4	94.4	94.4	0.	0.	**	**	**	**
01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/29/92-06/29/92	1 ##	0.115	0.115	0.115	0.115	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/29/92-06/29/92	1	5.6	5.6	5.6	5.6	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/29/92-06/29/92	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/29/92-06/29/92	1	2.2	2.2	2.2	2.2	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/29/92-06/29/92	1	105.	105.	105.	105.	0.	0.	**	**	**	**
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/29/92-06/29/92	1 ##	0.34	0.34	0.34	0.34	0.	0.	**	**	**	**
01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	06/29/92-06/29/92	1	11.6	11.6	11.6	11.6	0.	0.	**	**	**	**
01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	06/29/92-06/29/92	1 ##	4.3	4.3	4.3	4.3	0.	0.	**	**	**	**
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/29/92-06/29/92	1	3150.	3150.	3150.	3150.	0.	0.	**	**	**	**
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/29/92-06/29/92	1 ##	0.055	0.055	0.055	0.055	0.	0.	**	**	**	**
01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	06/29/92-06/29/92	1 ##	0.055	0.055	0.055	0.055	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/29/92-06/29/92	1	5470.	5470.	5470.	5470.	0.	0.	**	**	**	**
04133	MERCURY, BED MAT,DRY WT,SEDIMENT.	06/29/92-06/29/92	1 ##	0.055	0.055	0.055	0.055	0.	0.	**	**	**	**
81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	06/29/92-06/29/92	1	88.	88.	88.	88.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: TUZI0093

NPS Station ID: TUZI0093 Location: VERDE RIVER UPSTREAM OF SLAG HEAP Station Type: /TYPA/AMBNT/STREAM/SOLIDS/MINE RMI-Indexes: RMI-Miles: HUC: 15060202 Major Basin: COLORADO RIVER Minor Basin: GILA RIVER RF1 Index: 15060202 RF3 Index: 15060202002505.59 Description: THE STATION IS LOCATED ON THE CLARKDALE AZ-YAVAPAI COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SEDIMENT SAMPLING SITE IS AT THE VERDE RIVER UPSTREAM OF THE SLAG HEAP. THE SITE IS LOCATED OUTSIDE OF THE TUZIGOOT NATIONAL MONUMENT (TUZI) BOUNDARY. THE DATA ARE FROM A SITE SCREENING INVESTIGATION REPORT FOR THE PHELPS DODGE VERDE MINE AREA BY ECOLOGY AND ENVIRONMENT; INC. UNDER CONTRACT BY THE EPA. THE STUDY WAS CONDUCTED TO DETERMINE IF METALS ARE BEING RELEASED INTO THE ENVIRONMENT FROM A 116 ACRE TAILINGS PILE WHICH IS ADJACENT TO THE VERDE RIVER AND "CONTAINS APPROXIMATELY 4 MILLION TONS OF MINING WASTES." NPS STAFF ASSIGNED "J" STORET REMARK CODES TO VALUES THAT WERE ESTIMATED FROM ANALYTICAL MEASUREMENTS. FOR MORE INFORMATION CONTACT TUZIGOOT NATIONAL MONUMENT AT P.O. BOX 219; CAMP VERDE AZ 86332 (520-634-5564). DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (970-225-3516).	LAT/LON: 34.789670/-112.059421 Depth of Water: 0 Elevation: 0 RF1 Mile Point: 0.000 RF3 Mile Point: 6.29	Agency: 11NPSWRD FIPS State/County: 04025 ARIZONA/YAVAPAI STORET Station ID(s): TUZI_EPA_EE05 Within Park Boundary: No Aquifer: Water Body Id: ECO Region: Distance from RF1: 0.00 Distance from RF3: 0.01
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Date Created: 11/28/98

On/Off RF1:
On/Off RF3:

Parameter Inventory for Station: TUZI0093

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th	
00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	06/29/92-06/29/92	1	82800.	82800.	82800.	82800.	0.	0.	**	**	**	**
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	06/29/92-06/29/92	1	8110.	8110.	8110.	8110.	0.	0.	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/29/92-06/29/92	1	5.7	5.7	5.7	5.7	0.	0.	**	**	**	**
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/29/92-06/29/92	1	183.	183.	183.	183.	0.	0.	**	**	**	**
01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/29/92-06/29/92	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/29/92-06/29/92	1	24.9	24.9	24.9	24.9	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/29/92-06/29/92	1	12.6	12.6	12.6	12.6	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/29/92-06/29/92	1	1.7	1.7	1.7	1.7	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/29/92-06/29/92	1	168.	168.	168.	168.	0.	0.	**	**	**	**
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/29/92-06/29/92	1 ##	0.345	0.345	0.345	0.345	0.	0.	**	**	**	**
01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	06/29/92-06/29/92	1	20.9	20.9	20.9	20.9	0.	0.	**	**	**	**
01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	06/29/92-06/29/92	1 ##	4.35	4.35	4.35	4.35	0.	0.	**	**	**	**
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/29/92-06/29/92	1	7710.	7710.	7710.	7710.	0.	0.	**	**	**	**
01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	06/29/92-06/29/92	1 ##	0.055	0.055	0.055	0.055	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/29/92-06/29/92	1	8730.	8730.	8730.	8730.	0.	0.	**	**	**	**
04133	MERCURY, BED MAT,DRY WT,SEDIMENT,	06/29/92-06/29/92	1 ##	0.055	0.055	0.055	0.055	0.	0.	**	**	**	**
81373	SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	06/29/92-06/29/92	1	87.4	87.4	87.4	87.4	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: TUZI0094

NPS Station ID: TUZI0094
Location: VERDE RIVER AT TAPCO
Station Type: /TYPA/AMBNT/STREAM
RMI-Indexes:
RMI-Miles:
HUC: 15060202
Major Basin: COLORADO RIVER
Minor Basin: GILA**SALT**VERDE
RF1 Index: 15060202025
RF3 Index: 15060202002513.59
Description:
LAT 34 47'30", LONG 112 02'30", SE1/4 SE1/4, SEC 8, T16N, R3E,
DIRECTLY UNDER FOOTBRIDGE ON LEFT BANK, 226.9 KM (141.8 MI) UPSTREAM

LAT/LON: 34.791670/-112.041671

Depth of Water: 0
Elevation: 0
RF1 Mile Point: 16.770
RF3 Mile Point: 13.72

Agency: 21ARIZ
FIPS State/County: 04025 ARIZONA/YAVAPAI
STORET Station ID(s): 700000000022690/VR 013
Within Park Boundary: No

Aquifer:
Water Body Id:
ECO Region:
Distance from RF1: 0.00
Distance from RF3: 0.00

Date Created: / /

On/Off RF1: ON
On/Off RF3:

Parameter Inventory for Station: TUZI0094

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/31/73-02/07/73	2	10.5	10.5	11.	10.	0.5	0.707	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS CFS	01/31/73-01/31/73	1	77.	77.	77.	77.	0.	0.	**	**	**	**
00094 SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	01/31/73-02/07/73	2	507.5	507.5	530.	485.	1012.5	31.82	**	**	**	**
00310 BOD, 5 DAY, 20 DEG C MG/L	02/07/73-02/07/73	1	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
31616 FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	01/31/73-01/31/73	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
31616 LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	01/31/73-01/31/73	1 ##	-0.301	-0.301	-0.301	-0.301	0.	0.	**	**	**	**
31616 GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN =			0.5								

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0094

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	1	0	0.00	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
						1	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0095

NPS Station ID: TUZI0095 Location: VERDE RIVER UPSTREAM OF SLAG HEAP Station Type: /TYPA/AMBNT/STREAM/SOLIDS/MINE RMI-Indexes: RMI-Miles: HUC: 15060202 Major Basin: COLORADO RIVER Minor Basin: GILA RIVER RF1 Index: 15060202 RF3 Index: 15060202002505.59 Description: THE STATION IS LOCATED ON THE CLARKDALE AZ-YAVAPAI COUNTY 7.5 MINUTE VERDE RIVER UPSTREAM OF THE SLAG HEAP. THE SITE IS LOCATED OUTSIDE OF THE TUZIGOOT NATIONAL MONUMENT (TUZI) BOUNDARY. THE DATA ARE FROM A SITE SCREENING INVESTIGATION REPORT FOR THE PHELPS DODGE VERDE MINE AREA BY ECOLOGY AND ENVIRONMENT, INC. UNDER CONTRACT BY THE EPA. THE STUDY WAS CONDUCTED TO DETERMINE IF METALS ARE BEING RELEASED INTO THE ENVIRONMENT FROM A 116 ACRE TAILINGS PILE WHICH IS ADJACENT TO THE VERDE RIVER AND "CONTAINS APPROXIMATELY 4 MILLION TONS OF MINING WASTES." NPS STAFF ASSIGNED "J" STORET REMARK CODES TO VALUES THAT WERE ESTIMATED FROM ANALYTICAL MEASUREMENTS. FOR MORE INFORMATION CONTACT TUZIGOOT NATIONAL MONUMENT AT P.O. BOX 219; CAMP VERDE AZ 86332 (520-634-5564). DATA WERE PROCESSED AND UPLOADED TO STORET BY ADRIANE PETERSEN; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (970-225-3516).	LAT/LON: 34.792920/-112.062142 Depth of Water: 0 Elevation: 0 RF1 Mile Point: 0.000 RF3 Mile Point: 6.29	Agency: 11NPSWRD FIPS State/County: 04025 ARIZONA/YAVAPAI STORET Station ID(s): TUZI_EPA_EE24 Within Park Boundary: No Aquifer: Water Body Id: ECO Region: Distance from RF1: 0.00 Distance from RF3: 0.01
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On/Off RF1:
On/Off RF3:

Parameter Inventory for Station: TUZI0095

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00917 CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	06/30/92-06/30/92	1	69400.	69400.	69400.	69400.	0.	0.	**	**	**	**
00924 MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	06/30/92-06/30/92	1	9960.	9960.	9960.	9960.	0.	0.	**	**	**	**
01003 ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/30/92-06/30/92	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
01008 BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/30/92-06/30/92	1	404.	404.	404.	404.	0.	0.	**	**	**	**
01013 BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/30/92-06/30/92	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
01028 CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/30/92-06/30/92	1 ##	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
01029 CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/30/92-06/30/92	1	10.9	10.9	10.9	10.9	0.	0.	**	**	**	**
01043 COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/30/92-06/30/92	1	12.1	12.1	12.1	12.1	0.	0.	**	**	**	**
01052 LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/30/92-06/30/92	1	4.2	4.2	4.2	4.2	0.	0.	**	**	**	**
01053 MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/30/92-06/30/92	1	165.	165.	165.	165.	0.	0.	**	**	**	**
01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/30/92-06/30/92	1	36.5	36.5	36.5	36.5	0.	0.	**	**	**	**
01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/30/92-06/30/92	1 ##	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
01093 ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/30/92-06/30/92	1	20.7	20.7	20.7	20.7	0.	0.	**	**	**	**
01098 ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	06/30/92-06/30/92	1 ##	7.55	7.55	7.55	7.55	0.	0.	**	**	**	**
01108 ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/30/92-06/30/92	1	5160.	5160.	5160.	5160.	0.	0.	**	**	**	**
01148 SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/30/92-06/30/92	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01153 TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	06/30/92-06/30/92	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01170 IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/30/92-06/30/92	1	7900.	7900.	7900.	7900.	0.	0.	**	**	**	**
04133 MERCURY, BED MAT,DRY WT,SEDIMENT,	06/30/92-06/30/92	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0095

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
81373 SOLIDS IN SEDIMENT SAMPLEPERCENT DRY WEIGHT (%)	06/30/92-06/30/92	1	50.2	50.2	50.2	50.2	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

***** No EPA Water Quality Criteria exist to compare against the data at this station. *****

Station Inventory for Station: TUZI0096

NPS Station ID: TUZI0096 LAT/LON: 34.850281/-112.060282

Location: VERDE RIVER BELOW SYCAMORE CREEK NR CLARKDALE

Station Type: /TYPA/AMBNT/STREAM

RMI-Indexes:

RMI-Miles:

HUC: 15060202

Major Basin: COLORADO RIVER

Minor Basin: SALT-GILA/VERDE RIVER

RF1 Index: 15060202025

RF3 Index: 15060202003707.88

Description:

ELEVATION 3510 FEET MSL. T17N R03E SEC 17 dbd. "CLARKDALE" 7.5 MINUTE QUAD MAP. SITE IS LOCATED ON THE VERDE RIVER APPROXIMATELY 2 MILES DOWNSTREAM OF THE SYCAMORE CREEK CONFLUENCE. SITE IS APPROXIMATELY 80 YARDS DOWNSTREAM OF U.S.G.S. GAGE NUMBER 09504000 ON THE BORDER BETWEEN THE COCONINO AND PRESCOTT NATIONAL FORESTS. REFERENCE FILE WQMS-175.100.041.

Agency: 21ARIZ

FIPS State/County: 04025 ARIZONA/YAVAPAI

STORET Station ID(s): VRC3 /GR-SR-VRC3 /A17-03-17dbd

Within Park Boundary: No

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.50

Distance from RF3: 0.01

Date Created: 06/13/92

On/Off RF1: ON

On/Off RF3:

Parameter Inventory for Station: TUZI0096

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/26/90-07/24/91	6	19.	18.583	25.5	12.	22.442	4.737	**	**	**	**
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	04/26/90-07/24/91	6	29.	25.833	33.	10.	71.767	8.472	**	**	**	**
00055 VELOCITY, STREAM FT/SEC	10/30/90-07/24/91	3	1.7	1.9	2.4	1.6	0.19	0.436	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS CFS	10/30/90-07/24/91	4	82.	79.75	83.	72.	27.583	5.252	**	**	**	**
00064 DEPTH OF STREAM, MEAN (FT)	10/30/90-07/24/91	3	1.3	1.467	1.9	1.2	0.143	0.379	**	**	**	**
00065 STAGE, STREAM (FEET)	01/29/91-01/29/91	1	0.14	0.14	0.14	0.14	0.	0.	**	**	**	**
00094 SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	04/26/90-07/24/91	6	467.	441.333	512.	322.	6138.667	78.35	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/26/90-07/24/91	6	463.5	434.	501.	321.	5492.	74.108	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	04/26/90-07/24/91	5	8.1	8.7	11.7	6.	4.455	2.111	**	**	**	**
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION %	04/26/90-07/24/91	5	102.3	103.1	120.4	84.1	266.125	16.313	**	**	**	**
00403 PH, LAB, STANDARD UNITS SU	04/26/90-07/24/91	6	8.25	8.2	8.4	7.7	0.068	0.261	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	04/26/90-07/24/91	6	8.247	8.12	8.4	7.7	0.076	0.275	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/26/90-07/24/91	6	0.006	0.008	0.02	0.004	0.	0.006	**	**	**	**
00406 PH, FIELD, STANDARD UNITS SU	04/26/90-07/24/91	5	8.1	7.938	8.2	7.3	0.135	0.367	**	**	**	**
00406 CONVERTED PH, FIELD, STANDARD UNITS	04/26/90-07/24/91	5	8.1	7.781	8.2	7.3	0.166	0.407	**	**	**	**
00406 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/26/90-07/24/91	5	0.008	0.017	0.05	0.006	0.	0.019	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	04/26/90-07/24/91	6	251.5	253.333	330.	183.	2207.067	46.979	**	**	**	**
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)	04/26/90-07/24/91	6	1.	1.5	3.	1.	0.7	0.837	**	**	**	**
00440 BICARBONATE ION (MG/L AS HCO3)	04/26/90-07/24/91	6	306.5	306.667	403.	223.	3344.267	57.83	**	**	**	**
00445 CARBONATE ION (MG/L AS CO3)	04/26/90-07/24/91	6	1.	1.833	4.	1.	1.767	1.329	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/26/90-07/24/91	6	31.	292.5	1620.	7.	423065.5	650.435	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/26/90-07/24/91	5 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/26/90-07/24/91	6 ##	0.19	0.626	2.9	0.025	1.262	1.124	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/26/90-07/24/91	6 ##	0.08	0.105	0.22	0.05	0.005	0.07	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	04/26/90-07/24/91	5 ##	0.05	0.074	0.16	0.025	0.004	0.059	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	04/26/90-07/24/91	6	233.	255.333	427.	177.	7607.467	87.221	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS Ca)	04/26/90-07/24/91	6	51.25	66.417	151.	44.5	1726.174	41.547	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS Mg)	04/26/90-07/24/91	6	23.85	23.617	27.1	18.7	9.31	3.051	**	**	**	**
00929 SODIUM, TOTAL (MG/L AS Na)	04/26/90-07/24/91	6	24.5	22.633	27.4	15.5	22.899	4.785	**	**	**	**
00937 POTASSIUM, TOTAL MG/L AS K)	04/26/90-07/24/91	6	2.54	3.398	8.28	1.9	5.791	2.406	**	**	**	**
00940 CHLORIDE, TOTAL IN WATER MG/L	04/26/90-07/24/91	6	13.5	12.	15.	8.	10.	3.162	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0096

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00945	SULFATE, TOTAL (MG/L AS SO4)	04/26/90-07/24/91	6	8.5	8.667	13.	5.	16.267	4.033	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	04/26/90-07/24/91	6	0.26	0.222	0.33	0.1	0.01	0.098	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	04/26/90-07/24/91	6	16.	15.167	16.	12.	2.567	1.602	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	04/26/90-07/24/91	6	190.	243.333	560.	140.	24506.667	156.546	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	04/26/90-07/24/91	5 ##	0.25	0.25	0.25	0.	0.	0.	**	**	**
01022	BORON, TOTAL (UG/L AS B)	04/26/90-07/24/91	6	170.	203.333	570.	50.	36906.667	192.111	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	04/26/90-07/24/91	6 ##	0.5	0.917	2.	0.5	0.442	0.665	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	04/26/90-07/24/91	6 ##	5.	11.667	45.	5.	266.667	16.33	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	04/26/90-07/24/91	6 ##	5.	14.	59.	5.	486.	22.045	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	04/26/90-07/24/91	6	380.	3361.667	18000.	150.	51496696.667	7176.12	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	04/26/90-07/24/91	6 ##	5.	15.833	70.	5.	704.167	26.536	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	04/26/90-07/24/91	6 ##	25.	189.167	1010.	25.	161704.167	402.125	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	04/26/90-07/24/91	6 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	04/26/90-07/24/91	6 ##	50.	50.	50.	50.	0.	0.	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	04/26/90-07/24/91	6 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	04/26/90-07/24/91	6 ##	25.	39.167	110.	25.	1204.167	34.701	**	**	**
01097	ANTIMONY, TOTAL (UG/L AS SB)	04/26/90-07/24/91	6 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	04/26/90-07/24/91	6 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**
31613	FECAL COLIFORM, MEMBR FILTER, M-FC AGAR, 44.5C, 24HR	01/29/91-05/07/91	2	6.5	6.5	9.	4.	12.5	3.536	**	**	**
31613	LOG FECAL COLIFORM, MEMBR FILTER, M-FC AGAR, 44.5C, 24	01/29/91-05/07/91	2	0.778	0.778	0.954	0.602	0.062	0.249	**	**	**
31613	GM FECAL COLIFORM, MEMBR FILTER, M-FC AGAR, 44.5C, 24H	01/29/91-05/07/91	2	3.	3.	3.	3.	0.	0.	**	**	**
31673	FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	01/29/91-05/07/91	2	0.477	0.477	0.477	0.477	0.	0.	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	01/29/91-05/07/91	2	3.	3.	3.	3.	0.	0.	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	01/29/91-05/07/91	2	3.	3.	3.	3.	0.	0.	**	**	**
70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L	04/26/90-07/24/91	6	275.	264.	294.	208.	1110.8	33.329	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	04/26/90-07/24/91	6 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**
82079	TURBIDITY, LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	04/26/90-07/24/91	6	12.8	209.683	1190.	2.6	230718.346	480.331	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0096

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	5	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	2	0
00403	PH, LAB	Fresh Chronic	9.	6	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00	2	0
		Other-Lo Lim.	6.5	6	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00	2	0
00406	PH, FIELD	Fresh Chronic	9.	5	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	2	0
		Other-Lo Lim.	6.5	5	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	2	0
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	6	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00	2	0
00940	CHLORIDE, TOTAL IN WATER	Fresh Acute	860.	6	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00	2	0
		Drinking Water	250.	6	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00	2	0
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	6	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00	2	0
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	6	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00	2	0
01002	ARSENIC, TOTAL	Fresh Acute	360.	6	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00	2	0
		Drinking Water	50.	6	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00	2	0
01007	BARIUM, TOTAL	Drinking Water	2000.	6	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00	2	0
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	5	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00	1	0
		Drinking Water	4.	5	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00	1	0
01027	CADMIUM, TOTAL	Fresh Acute	3.9	6	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00	2	0
		Drinking Water	5.	6	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00	2	0
01034	CHROMIUM, TOTAL	Drinking Water	100.	6	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00	2	0
01042	COPPER, TOTAL	Fresh Acute	18.	6	1	0.17	2	0	0.00	1	0	0.00	1	0	0.00	2	1
		Drinking Water	1300.	6	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00	2	0
01051	LEAD, TOTAL	Fresh Acute	82.	6	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00	2	0
		Drinking Water	15.	6	1	0.17	2	0	0.00	1	0	0.00	1	0	0.00	2	1
01059	THALLIUM, TOTAL	Fresh Acute	1400.	6	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00	2	0
		Drinking Water	2.	0 &	0	0.00											
01067	NICKEL, TOTAL	Fresh Acute	1400.	6	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00	2	0
		Drinking Water	100.	6	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00	2	0

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: TUZI0096

Parameter	Std. Type	Std. Value	Total	Exceed	Prop.	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
			Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
01077 SILVER, TOTAL	Fresh Acute	4.1	6	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00	2	0	0.00
	Drinking Water	100.	6	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00	2	0	0.00
01092 ZINC, TOTAL	Fresh Acute	120.	6	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00	2	0	0.00
	Drinking Water	5000.	6	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00	2	0	0.00
01097 ANTIMONY, TOTAL	Fresh Acute	88.	6	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00	2	0	0.00
	Drinking Water	6.	6	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00	2	0	0.00
01147 SELENIUM, TOTAL	Fresh Acute	20.	6	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00	2	0	0.00
	Drinking Water	50.	6	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00	2	0	0.00
31613 FECAL COLIFORM, MEMBRANE FILTER, AGAR	Other-Hi Lim.	200.	2	0	0.00	1	0	0.00				1	0	0.00			
71900 MERCURY, TOTAL	Fresh Acute	2.4	6	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00	2	0	0.00
	Drinking Water	2.	6	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00	2	0	0.00
82079 TURBIDITY, LAB	Other-Hi Lim.	50.	6	1	0.17	2	0	0.00	1	0	0.00	1	0	0.00	2	1	0.50

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0097

NPS Station ID: TUZI0097
 Location: VERDE RIVER ABOVE CLARKDALE
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 15060202
 Major Basin: COLORADO RIVER
 Minor Basin: GILA**SALT**VERDE
 RF1 Index: 15060202025
 RF3 Index: 15060202002500.00
 Description:

LAT/LON: 34.851392/-112.065281

Depth of Water: 0
 Elevation: 0
 RF1 Mile Point: 22.660
 RF3 Mile Point: 0.72

Agency: 21ARIZ
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): 700000000023700/PM 240
 Within Park Boundary: No

Date Created: / /

Aquifer:
 Water Body ID:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.01

On/Off RF1: ON
 On/Off RF3:

LAT 34 51'05", LONG 112 03'55", SE1/4 NW1/4, SEC 17, T17N, R3E, YAVAPAI CO, IN PRESCOTT NATIONAL FOREST, ON LEFT BANK, 2.7 KM (1.7 MI)
 DOWNSTREAM FROM SYCAMORE CREEK, 9.0 KM (5.6 MI) NORTH OF CLARKDALE, 238.3 KM (148.1 MI) UPSTREAM FROM SALT RIVER.

Parameter Inventory for Station: TUZI0097

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/12/74-12/29/76	6	9.45	9.967	14.5	6.	8.707	2.951	**	**	**	**
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/26/75-03/25/75	2	9.75	9.75	11.6	7.9	6.845	2.616	**	**	**	**
00070 TURBIDITY, (JACKSON CANDLE UNITS)	11/12/74-03/25/75	4	6.5	8.75	18.	4.	40.917	6.397	**	**	**	**
00094 SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	11/12/74-03/25/75	5	410.	397.	440.	295.	3420.	58.481	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/29/76-12/29/76	1	217.	217.	217.	217.	0.	0.	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	11/12/74-03/25/75	5	7.	6.7	10.5	3.5	7.075	2.66	**	**	**	**
00400 PH (STANDARD UNITS)	12/19/74-01/08/75	2	2.9	2.9	3.4	2.4	0.5	0.707	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	12/19/74-01/08/75	2	2.66	2.66	3.4	2.4	0.616	0.785	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/19/74-01/08/75	2	2189.589	2189.589	3981.072	398.107	6418817.429	2533.539	**	**	**	**
00403 PH, LAB, STANDARD UNITS SU	02/26/75-12/29/76	2	8.15	8.15	8.3	8.	0.045	0.212	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	02/26/75-12/29/76	2	8.125	8.125	8.3	8.	0.046	0.215	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/26/75-12/29/76	2	0.008	0.008	0.01	0.005	0.	0.004	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	02/26/75-12/29/76	2	174.	174.	248.	100.	10952.	104.652	**	**	**	**
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)	02/26/75-12/29/76	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00500 RESIDUE, TOTAL (MG/L)	12/29/76-12/29/76	1	126.	126.	126.	126.	0.	0.	**	**	**	**
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	02/26/75-02/26/75	1	336.	336.	336.	336.	0.	0.	**	**	**	**
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	11/12/74-03/25/75	4 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	11/12/74-03/25/75	4 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00650 PHOSPHATE, TOTAL (MG/L AS PO4)	11/12/74-03/25/75	4	0.1	0.103	0.2	0.01	0.006	0.078	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	02/26/75-12/29/76	2	163.	163.	224.	102.	7442.	86.267	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	02/26/75-02/26/75	1	58.	58.	58.	58.	0.	0.	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS Ca)	12/29/76-12/29/76	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	02/26/75-02/26/75	1	26.	26.	26.	26.	0.	0.	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)	12/29/76-12/29/76	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00929 SODIUM, TOTAL (MG/L AS Na)	12/29/76-12/29/76	1	26.	26.	26.	26.	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS Na)	02/26/75-02/26/75	1	24.	24.	24.	24.	0.	0.	**	**	**	**
00940 CHLORIDE, TOTAL IN WATER MG/L	02/26/75-12/29/76	2	12.	12.	16.	8.	32.	5.657	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	02/26/75-12/29/76	2	7.5	7.5	10.	5.	12.5	3.536	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	02/26/75-02/26/75	1	0.22	0.22	0.22	0.22	0.	0.	**	**	**	**
00951 FLUORIDE, TOTAL (MG/L AS F)	12/29/76-12/29/76	1	0.15	0.15	0.15	0.15	0.	0.	**	**	**	**
00997 ARSENIC, INORGANIC TOT (UG/L AS AS)	11/12/74-03/25/75	5 ##	5.	6.	10.	5.	5.	2.236	**	**	**	**
01002 ARSENIC, TOTAL (UG/L AS AS)	12/29/76-12/29/76	1	14.	14.	14.	14.	0.	0.	**	**	**	**
01027 CADMIUM, TOTAL (UG/L AS CD)	11/12/74-03/25/75	5 ##	5.	5.	5.	5.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0097

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01034 CHROMIUM, TOTAL (UG/L AS CR)	11/12/74-03/25/75	5 ##	25.	21.	25.	5.	80.	8.944	**	**	**	**
01042 COPPER, TOTAL (UG/L AS CU)	02/26/75-12/29/76	2 ##	12.5	12.5	25.	0.	312.5	17.678	**	**	**	**
01045 IRON, TOTAL (UG/L AS FE)	02/26/75-12/29/76	2	215.	215.	230.	200.	450.	21.213	**	**	**	**
01051 LEAD, TOTAL (UG/L AS PB)	11/12/74-03/25/75	5 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01055 MANGANESE, TOTAL (UG/L AS MN)	02/26/75-12/29/76	2 ##	12.5	12.5	25.	0.	312.5	17.678	**	**	**	**
01077 SILVER, TOTAL (UG/L AS AG)	11/12/74-03/25/75	5 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092 ZINC, TOTAL (UG/L AS ZN)	02/26/75-12/29/76	2 ##	12.5	12.5	25.	0.	312.5	17.678	**	**	**	**
01147 SELENIUM, TOTAL (UG/L AS SE)	02/26/75-03/25/75	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
71850 NITRATE NITROGEN,TOTAL (MG/L AS NO3)	11/12/74-12/29/76	6 ##	0.5	0.5	1.	0.	0.1	0.316	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)	11/12/74-03/25/75	5 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0097

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00070 TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	4	0	0.00	3	0	0.00	1	0	0.00						
00300 OXYGEN, DISSOLVED	Other-Lo Lim.	4.	5	1	0.20	3	1	0.33	2	0	0.00						
00400 PH	Fresh Chronic	9.	2	0	0.00	2	0	0.00									
	Other-Lo Lim.	6.5	2	2	1.00	2	2	1.00									
00403 PH, LAB	Fresh Chronic	9.	2	0	0.00	1	0	0.00	1	0	0.00						
	Other-Lo Lim.	6.5	2	0	0.00	1	0	0.00	1	0	0.00						
00615 NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	4	0	0.00	3	0	0.00	1	0	0.00						
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	1	0	0.00	1	0	0.00						
	Drinking Water	250.	2	0	0.00	1	0	0.00	1	0	0.00						
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	0	0.00	1	0	0.00	1	0	0.00						
00950 FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00				1	0	0.00						
00951 FLUORIDE, TOTAL AS F	Drinking Water	4.	1	0	0.00	1	0	0.00									
00997 ARSENIC, INORGANIC TOT	Fresh Acute	360.	5	0	0.00	3	0	0.00	2	0	0.00						
	Drinking Water	50.	5	0	0.00	3	0	0.00	2	0	0.00						
01002 ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00	1	0	0.00									
	Drinking Water	50.	1	0	0.00	1	0	0.00									
01027 CADMIUM, TOTAL	Fresh Acute	3.9	0 &	0	0.00												
	Drinking Water	5.	0 &	0	0.00												
01034 CHROMIUM, TOTAL	Drinking Water	100.	5	0	0.00	3	0	0.00	2	0	0.00						
01042 COPPER, TOTAL	Fresh Acute	18.	1 &	0	0.00	1	0	0.00									
	Drinking Water	1300.	2	0	0.00	1	0	0.00	1	0	0.00						
01051 LEAD, TOTAL	Fresh Acute	82.	5	0	0.00	3	0	0.00	2	0	0.00						
	Drinking Water	15.	0 &	0	0.00												
01077 SILVER, TOTAL	Fresh Acute	4.1	0 &	0	0.00												
	Drinking Water	100.	5	0	0.00	3	0	0.00	2	0	0.00						
01092 ZINC, TOTAL	Fresh Acute	120.	2	0	0.00	1	0	0.00	1	0	0.00						
	Drinking Water	5000.	2	0	0.00	1	0	0.00	1	0	0.00						
01147 SELENIUM, TOTAL	Fresh Acute	20.	2	0	0.00				2	0	0.00						
	Drinking Water	50.	2	0	0.00				2	0	0.00						
71850 NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	6	0	0.00	4	0	0.00	2	0	0.00						
71900 MERCURY, TOTAL	Fresh Acute	2.4	5	0	0.00	3	0	0.00	2	0	0.00						
	Drinking Water	2.	5	0	0.00	3	0	0.00	2	0	0.00						

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0098

NPS Station ID: TUZI0098
 Location: VERDE RIVER NR CLARKDALE, ARIZ.
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 15060202
 Major Basin:
 Minor Basin:
 RF1 Index: 15060202
 RF3 Index: 15060202001806.88
 Description:

LAT/LON: 34.851392/-112.065281

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 7.32

Agency: 112WRD
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): 09504000
 Within Park Boundary: No

Date Created: 07/30/76

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.70
 Distance from RF3: 0.00

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: TUZI0098

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	10/22/86-06/25/96	94	59.	65.096	91.	43.	171.614	13.1	54.	56.	74.25	88.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/24/76-07/23/96	177	17.5	17.02	28.5	5.	33.686	5.804	9.5	12.	21.5	25.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/10/78-07/23/96	125	23.	22.348	41.	-0.5	84.799	9.209	3.5	16.	29.25	35.
00025	BAROMETRIC PRESSURE (MM OF HG)	10/27/82-07/23/96	111	677.	676.324	686.	656.	20.257	4.501	670.2	674.	680.	680.8
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/24/76-06/25/96	163	82.	210.454	4480.	59.	265770.336	515.529	75.4	79.	90.	341.8
00065	STAGE, STREAM (FEET)	10/27/82-06/25/96	114	0.145	0.591	6.3	0.03	1.088	1.043	0.07	0.087	0.693	1.49
00070	TURBIDITY, (JACKSON CANDLE UNITS)	03/24/76-08/09/79	28	10.	25.643	160.	0.	1194.608	34.563	1.9	5.25	33.75	72.8
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/12/79-07/23/96	102	3.9	23.61	550.	0.2	5210.21	72.182	0.6	1.475	16.5	58.5
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/24/76-07/23/96	175	495.	457.731	720.	103.	12293.002	110.874	236.	475.	510.	523.2
00300p	OXYGEN, DISSOLVED MG/L	03/24/76-07/23/96	163	9.4	9.258	12.2	0.	2.703	1.644	7.54	8.4	10.2	11.12
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	10/27/82-10/19/88	30	103.5	102.2	123.	0.	438.097	20.931	92.1	100.	111.25	119.5
00335	COD, .025N K2CR2O7 MG/L	08/31/76-08/31/76	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00340p	COD, .25N K2CR2O7 MG/L	03/24/76-07/23/96	135	12.	19.107	293.	0.	1037.602	32.212	5.	5.	21.	35.8
00400p	PH (STANDARD UNITS)	03/24/76-07/23/96	173	8.2	8.19	8.6	6.9	0.055	0.234	7.924	8.1	8.3	8.4
00400p	CONVERTED PH (STANDARD UNITS)	03/24/76-07/23/96	173	8.2	8.09	8.6	6.9	0.065	0.254	7.924	8.1	8.3	8.4
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/24/76-07/23/96	173	0.006	0.008	0.126	0.003	0.	0.011	0.004	0.005	0.008	0.012
00403	PH, LAB, STANDARD UNITS SU	01/21/81-07/23/96	134	8.1	8.104	8.6	7.2	0.039	0.196	7.85	8.	8.2	8.3
00403	CONVERTED PH, LAB, STANDARD UNITS	01/21/81-07/23/96	134	8.1	8.049	8.6	7.2	0.042	0.204	7.85	8.	8.2	8.3
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/21/81-07/23/96	134	0.008	0.009	0.063	0.003	0.	0.006	0.005	0.006	0.01	0.014
00405	CARBON DIOXIDE (MG/L AS CO2)	03/24/76-08/09/79	38	3.1	3.25	6.6	1.3	1.468	1.212	1.67	2.4	3.9	4.91
00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	03/24/76-04/02/91	108	229.	162.306	300.	0.	11525.467	107.357	0.	13.25	250.	257.1
00417	ALKALINITY, FIXED ENDPOINT TITRATION, USGS LAB MG/L	12/23/86-12/23/86	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00419	ALKALINITY, CARBONATE, INCREMENTAL TITR FIELD MG/L	10/22/86-02/15/89	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	03/24/76-11/17/88	60	235.5	171.05	316.	0.	19315.404	138.98	0.	0.	303.75	310.
00445	CARBONATE ION (MG/L AS CO3)	03/24/76-11/17/88	58	0.	0.052	2.	0.	0.085	0.292	0.	0.	0.	0.
00447	CARBONATE, INCREMENTAL TITRATION, (CO3) FIELD MG/L	10/22/86-10/22/86	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00450	BICARBONATE, INCREMENTAL TITRATION, (HCO3) FIELD MG/L	10/22/86-10/22/86	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00452	CARBONATE, WATER, DISS, INCR TIT, FIELD, AS CO3, MG/L	10/22/86-07/23/96	99	0.	4.263	48.	0.	50.379	7.098	0.	0.	8.	12.
00453	BICARBONATE, WATER, DISS, INCR TIT, FIELD, AS HCO3, MG/L	10/22/86-07/23/96	102	301.5	274.294	337.	63.	4733.462	68.8	130.15	275.75	317.	326.4
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/24/79-07/23/96	134	13.	40.612	880.	0.	9116.619	95.481	1.	4.	32.	90.
00572	BIOMASS, PERIPHYTON (GRAMS PER SQUARE METER)	06/11/79-06/11/79	1	20.3	20.3	20.3	20.3	0.	0.	**	**	**	**
00573	BIOMASS, PERIPHYTON, DRY WEIGHT TOTAL (G/M2)	06/11/79-06/11/79	1	24.5	24.5	24.5	24.5	0.	0.	**	**	**	**
00600	NITROGEN, TOTAL (MG/L AS N)	03/24/76-02/01/83	57	0.46	0.637	5.4	0.09	0.697	0.835	0.198	0.26	0.64	1.1
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	03/16/81-03/16/81	1	0.55	0.55	0.55	0.55	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/16/81-07/23/96	91	0.01	0.018	0.1	0.005	0.	0.019	0.005	0.005	0.02	0.03
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	03/24/76-01/12/77	2 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/27/90-08/30/94	32 ##	0.005	0.011	0.04	0.005	0.	0.01	0.005	0.005	0.018	0.02
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	03/24/76-01/12/77	2	0.185	0.185	0.29	0.08	0.022	0.148	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0098

	Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/24/76-07/23/96	171	0.25	0.395	4.9	0.03	0.316	0.562	0.1	0.1	0.49	0.74
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/24/76-07/23/96	162	0.1	0.133	0.6	0.01	0.012	0.11	0.03	0.05	0.2	0.294
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	03/24/76-08/31/83	50	0.1	0.185	2.3	0.	0.107	0.327	0.03	0.05	0.2	0.3
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	04/18/79-06/11/79	3	0.06	0.07	0.12	0.03	0.002	0.046	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	03/24/76-12/01/82	47	0.03	0.064	0.28	0.	0.004	0.064	0.	0.03	0.09	0.126
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	03/24/76-07/23/96	172	0.03	0.09	3.4	0.005	0.087	0.294	0.005	0.02	0.07	0.177
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/24/76-08/31/83	50	0.01	0.022	0.09	0.	0.	0.02	0.005	0.01	0.03	0.04
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/24/76-10/05/83	69	1.7	4.077	59.	0.2	57.647	7.593	0.7	0.9	4.5	11.
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	03/24/76-10/24/79	41	0.	0.	0.02	0.	0.	0.003	0.	0.	0.	0.
00900	HARDNESS, TOTAL (MG/L AS CaCO3)	03/24/76-03/10/83	66	220.	201.591	240.	60.	2563.845	50.634	97.6	210.	230.	240.
00902	HARDNESS, NON-CARBONATE (MG/L AS CaCO3)	03/24/76-08/12/82	50	0.	6.08	210.	0.	918.402	30.305	0.	0.	0.	5.8
00915p	CALCIUM, DISSOLVED (MG/L AS Ca)	03/24/76-07/23/96	174	50.	47.184	60.	14.	102.498	10.124	27.5	47.	53.	55.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/24/76-07/23/96	174	24.	21.291	26.	3.8	31.24	5.589	9.15	22.	24.	25.
00930p	SODIUM, DISSOLVED (MG/L AS Na)	03/24/76-07/23/96	152	24.	21.65	28.	3.7	39.159	6.258	8.45	22.	25.	26.
00931	SODIUM ADSORPTION RATIO	03/24/76-03/10/83	49	0.7	0.62	0.8	0.2	0.025	0.158	0.3	0.55	0.7	0.8
00932	SODIUM, PERCENT	03/24/76-03/10/83	49	18.	18.408	32.	7.	17.622	4.198	15.	16.5	19.	20.
00933	SODIUM,PLUS POTASSIUM (MG/L)	05/09/79-10/24/79	6	25.5	25.667	28.	23.	3.067	1.751	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	03/24/76-07/23/96	152	2.	2.002	3.	1.	0.125	0.353	1.43	1.9	2.2	2.37
00940p	CHLORIDE,TOTAL IN WATER MG/L	03/24/76-07/23/96	156	13.	11.955	18.	2.	11.514	3.393	5.7	12.	14.	15.
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/24/76-07/23/96	175	9.	8.496	15.	0.3	5.118	2.262	5.	8.	10.	11.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	03/24/76-07/23/96	152	0.2	0.206	0.4	0.05	0.005	0.069	0.1	0.2	0.2	0.3
00955	SILICA, DISSOLVED (MG/L AS SiO2)	03/24/76-07/03/91	53	18.	18.17	23.	12.	4.874	2.208	15.	17.	20.	20.
01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/22/86-07/23/96	95	17.	14.821	21.	2.	21.212	4.606	5.	14.	18.	18.
01002p	ARSENIC, TOTAL (UG/L AS AS)	03/24/76-07/23/96	141	16.	14.936	22.	2.	18.803	4.336	6.2	14.	18.	19.
01005	BARIUM, DISSOLVED (UG/L AS Ba)	10/22/86-07/23/96	96	170.	152.042	190.	18.	2032.04	45.078	52.7	150.	180.	180.
01007	BARIUM, TOTAL (UG/L AS Ba)	03/24/76-10/24/79	41	200.	182.927	400.	50.	13576.22	116.517	50.	50.	200.	400.
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	08/23/95-07/23/96	5 ##	5.	4.05	5.	0.25	4.512	2.124	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	10/19/88-07/23/96	32 ##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
01020p	BORON, DISSOLVED (UG/L AS B)	03/24/76-08/30/94	140	160.	145.179	210.	5.	2197.63	46.879	51.	150.	170.	180.
01021	BORON, SUSPENDED (UG/L AS B)	04/18/79-10/24/79	7	20.	28.571	110.	0.	1414.286	37.607	**	**	**	**
01022	BORON, TOTAL (UG/L AS B)	03/24/76-07/23/96	61	190.	180.82	390.	50.	4164.317	64.532	72.	165.	200.	240.
01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/24/76-07/23/96	98 ##	0.5	0.796	18.	0.	3.267	1.808	0.5	0.5	0.5	1.
01026	CADMIUM, SUSPENDED (UG/L AS CD)	03/24/76-04/20/76	2 ##	4.	4.	4.5	3.5	0.5	0.707	**	**	**	**
01027p	CADMIUM, TOTAL (UG/L AS CD)	03/24/76-07/23/96	171 ##	0.5	2.608	15.	0.	17.19	4.146	0.5	0.5	2.	10.
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	01/21/81-07/23/96	115	1.	1.539	7.	0.5	1.773	1.331	0.5	0.5	2.	3.
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	01/21/81-09/22/82	20 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
01034p	CHROMIUM, TOTAL (UG/L AS CR)	03/24/76-07/23/96	137	2.	4.237	28.	0.	27.555	5.249	0.	0.75	5.	10.
01040	COPPER, DISSOLVED (UG/L AS CU)	10/05/83-07/23/96	96	1.	2.135	21.	0.5	7.087	2.662	0.5	0.5	2.75	5.
01042p	COPPER, TOTAL (UG/L AS CU)	03/24/76-07/23/96	160	5.	12.997	340.	0.5	1144.426	33.829	0.5	2.	10.	24.9
01044	IRON, SUSPENDED (UG/L AS FE)	04/18/79-09/28/79	6	105.	200.	720.	40.	66760.	258.38	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	03/24/76-07/23/96	140	260.	1060.136	20000.	30.	7227248.046	2688.354	60.	130.	775.	2400.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/24/76-07/23/96	146	8.	29.798	320.	1.5	3295.426	57.406	3.7	5.	21.25	78.5
01049	LEAD, DISSOLVED (UG/L AS PB)	01/21/81-07/23/96	126 ##	0.5	1.583	10.	0.5	2.831	1.683	0.5	0.5	2.5	3.
01051p	LEAD, TOTAL (UG/L AS PB)	03/24/76-07/23/96	138	2.5	19.428	100.	0.5	1191.433	34.517	0.5	1.	12.	100.
01054	MANGANESE, SUSPENDED (UG/L AS MN)	04/18/79-10/24/79	7	7.	9.857	40.	0.	195.476	13.981	**	**	**	**
01055p	MANGANESE, TOTAL (UG/L AS MN)	03/24/76-07/23/96	140	20.	44.107	800.	5.	9871.319	99.355	5.	10.	40.	90.
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	03/24/76-07/23/96	146	5.	13.171	960.	1.	6250.102	79.058	3.	4.	7.	11.3
01059	THALLIUM, TOTAL (UG/L AS TL)	12/15/88-12/14/89	7 ##	2.5	2.643	5.	2.	1.143	1.069	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	08/23/95-07/23/96	5 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	10/19/88-07/23/96	32	4.5	16.516	50.	0.5	459.766	21.442	0.5	1.25	50.	50.
01075	SILVER, DISSOLVED (UG/L AS AG)	10/22/86-07/23/96	95 ##	0.5	0.705	7.	0.5	0.731	0.855	0.5	0.5	0.5	1.
01077	SILVER, TOTAL (UG/L AS AG)	03/24/76-10/24/79	41 ##	1.	4.463	10.	0.	24.655	4.965	0.	0.	10.	10.
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	07/03/91-07/03/91	1	190.	190.	190.	190.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	01/21/81-07/23/96	115	5.	7.996	270.	1.5	636.923	25.237	1.5	1.5	7.	13.
01092p	ZINC, TOTAL (UG/L AS ZN)	03/24/76-07/23/96	140 ##	10.	17.571	120.	0.	413.484	20.334	5.	5.	20.	40.
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	08/23/95-07/23/96	5	2.	2.4	5.	1.	2.3	1.517	**	**	**	**
01097	ANTIMONY, TOTAL (UG/L AS SB)	10/19/88-07/23/96	32	2.	2.203	7.	0.5	2.998	1.731	0.5	0.5	3.	5.
01145	SELENIUM, DISSOLVED (UG/L AS SE)	10/22/86-07/23/96	95 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
01147p	SELENIUM, TOTAL (UG/L AS SE)	03/24/76-07/23/96	161 ##	0.5	0.581	9.	0.	0.465	0.682	0.5	0.5	0.5	0.5
07000	TRITIUM (1H3),TOTAL (PICOCURIES/LITER)	07/03/91-07/03/91	1	2.9	2.9	2.9	2.9	0.	0.	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	09/30/76-09/30/76	1	123.	123.	123.	123.	0.	0.	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	09/30/76-09/30/76	1	2.09	2.09	2.09	2.09	0.	0.	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			123.								

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0098

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	03/24/76-09/30/76	6	68.5	79.75	220.	0.5	7493.975	86.568	**	**	**
31616	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	03/24/76-09/30/76	6	1.736	1.266	2.342	-0.301	1.301	1.141	**	**	**
31616	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN =		18.431								
31625p	FECAL COLIFORM, MF, M-FC, 0.7 UM	11/10/76-11/21/95	160	10.	99.275	8000.	0.	422091.669	649.686	2.	30.75	110.
31625p	LOG FECAL COLIFORM, MF, M-FC, 0.7 UM	11/10/76-11/21/95	160	1.	1.069	3.903	-0.301	0.524	0.724	0.301	0.602	2.041
31625p	GM FECAL COLIFORM, MF, M-FC, 0.7 UM	GEOMETRIC MEAN =		11.73								
31633	E. COLI, THERMOTOL, MF, M-TEC, IN SITU UREASE #/100ML	10/27/94-08/23/95	5	14.	25.8	79.	4.	933.7	30.557	**	**	**
31633	LOG E. COLI, THERMOTOL, MF, M-TEC, IN SITU UREASE #/100	10/27/94-08/23/95	5	1.146	1.192	1.898	0.602	0.233	0.483	**	**	**
31633	GM E. COLI, THERMOTOL, MF, M-TEC, IN SITU UREASE #/100M	GEOMETRIC MEAN =		15.572								
31673	FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	06/20/77-11/21/95	95	100.	270.805	6200.	0.	498729.752	706.208	9.6	220.	585.
31673	LOG FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	06/20/77-11/21/95	95	2.	1.904	3.792	-0.301	0.517	0.719	0.982	2.342	2.767
31673	GM FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	GEOMETRIC MEAN =		80.215								
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	03/24/76-10/05/83	69	3.	4.42	26.	0.	27.571	5.251	0.	5.5	11.
39036	ALKALINITY, FILTERED SAMPLE AS CaCO3 MG/L	10/19/88-06/25/96	77	254.	233.208	271.	52.	2991.009	54.69	101.	262.	266.
39086	ALKALINITY, WATER, DISS, INCR TIT, FIELD, AS CaCO3, MG/L	10/22/86-07/23/96	102	256.5	235.387	276.	52.	3013.158	54.892	112.2	263.25	269.
60050	ALGAE, TOTAL (CELLS/ML)	05/09/79-05/09/79	1	410.	410.	410.	0.	0.	0.	**	**	**
70300p	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L	03/24/76-07/23/96	163	269.	251.399	332.	74.	2828.661	53.185	142.8	284.	292.6
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	03/24/76-03/10/83	49	287.	256.184	309.	82.	4322.528	65.746	120.	297.	302.
70302	SOLIDS, DISSOLVED-TONS PER DAY	03/24/76-02/01/83	66	59.85	78.835	363.	39.	3603.976	60.033	50.05	66.125	149.7
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	03/24/76-02/01/83	66	0.37	0.341	0.42	0.11	0.006	0.076	0.191	0.34	0.4
70331	SUSPENDED SED SIEVE DIAMETER, % FINER THAN .062MM	02/25/88-02/25/88	1	93.	93.	93.	93.	0.	0.	**	**	**
70507	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	10/27/82-08/30/94	33	0.01	0.02	0.1	0.005	0.001	0.025	0.005	0.005	0.06
70950	BIOMASS-CHLOROPHYLL RATIO, PERIPHYTON (UNITS)	06/11/79-06/11/79	1	382.	382.	382.	382.	0.	0.	**	**	**
70957	CHLOROPHYLL-A, PERIPHYTON UG/L, CHROMO-FLUORO	06/13/78-06/11/79	2	10.5	10.5	11.	10.	0.5	0.707	**	**	**
70958	CHLOROPHYLL-B, PERIPHYTON UG/L, CHROMO-FLUORO	06/13/78-06/11/79	2	1.3	1.3	2.2	0.4	1.62	1.273	**	**	**
71830	HYDROXIDE ION (MG/L AS OH)	02/26/87-08/25/87	3	0.	0.	0.	0.	0.	0.	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/24/76-01/12/77	2	0.85	0.85	1.3	0.4	0.405	0.636	**	**	**
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	03/24/76-01/12/77	2	0.	0.	0.	0.	0.	0.	**	**	**
71865	IODIDE (MG/L AS I)	07/03/91-07/03/91	1	0.002	0.002	0.002	0.002	0.	0.	**	**	**
71870	BROMIDE (MG/L AS BR)	07/03/91-07/03/91	1	0.07	0.07	0.07	0.07	0.	0.	**	**	**
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	04/18/79-10/05/83	38	0.12	0.438	10.	0.03	2.558	1.599	0.03	0.09	0.288
71887	NITROGEN, TOTAL, AS NO3 - MG/L	03/24/76-02/01/83	56	2.05	2.871	24.	0.7	13.953	3.735	0.9	2.875	4.93
71890	MERCURY, DISSOLVED (UG/L AS HG)	10/27/94-07/23/96	7 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**
71900p	MERCURY, TOTAL (UG/L AS HG)	03/24/76-07/23/96	137 ##	0.05	0.081	0.4	0.	0.005	0.073	0.05	0.05	0.25
75985	TRITIUM, 1 SIGMA PRC EST, TOTAL, WATER PC/L	07/03/91-07/03/91	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/11/78-08/30/94	121	27.	91.198	2760.	3.	84085.16	289.974	8.2	51.	171.2
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/11/78-12/29/82	33	5.3	68.3	1420.	1.1	60863.318	246.705	1.58	2.9	119.2
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	02/19/81-02/19/81	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**
82081	CARBON-13 / CARBON-12 STABLE ISOTOPE RATIO PER MIL	07/03/91-07/03/91	1	-5.9	-5.9	-5.9	-5.9	0.	0.	**	**	**
82082	DEUTERIUM/PROTIUM (H-2/H-1) STABLE ISOTOPE RATIO	07/03/91-07/03/91	1	-77.5	-77.5	-77.5	-77.5	0.	0.	**	**	**
82085	OXYGEN-18/OXYGEN-16 STABLE ISOTOPE RATIO PER MIL	07/03/91-07/03/91	1	-10.9	-10.9	-10.9	-10.9	0.	0.	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0098

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----	-----2/10-4/30-----	-----5/01-6/30-----	-----7/01-10/09-----
00070	TURBIDITY, JACKSON CANDLE UNITS	50.	28	3	0.11	9	1	0	3
00076	TURBIDITY, HACH TURBIDIMETER	50.	102	12	0.12	33	2	3	16
00300	OXYGEN, DISSOLVED	4.	163	2	0.01	51	0	0	27
00400	PH	9.	173	0	0.00	51	0	0	29
	Other-Lo Lim.	6.5	173	0	0.00	51	0	0	29
00403	PH, LAB	9.	134	0	0.00	41	0	0	22
	Fresh Chronic	6.5	134	0	0.00	41	0	0	22
	Other-Lo Lim.	6.5	134	0	0.00	41	0	0	22
00613	NITRITE NITROGEN, DISSOLVED AS N	1.	2	0	0.00	1	0	0	4
00615	NITRITE NITROGEN, TOTAL AS N	1.	32	0	0.00	10	0	0	8
00618	NITRATE NITROGEN, DISSOLVED AS N	10.	2	0	0.00	1	0	0	1
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	10.	162	0	0.00	49	0	0	43
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	10.	50	0	0.00	14	0	0	14
	Drinking Water	1.	2	0	0.00	1	0	0	1
	Drinking Water	10.	2	0	0.00	1	0	0	1
	Drinking Water	10.	162	0	0.00	49	0	0	43
	Drinking Water	10.	50	0	0.00	14	0	0	14

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: TUZI0098

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00720	CYANIDE, TOTAL	0.022	41	0	0.00	12	0	0.00	11	0	0.00	6	0	0.00	12	0	0.00
	Drinking Water	0.2	41	0	0.00	12	0	0.00	11	0	0.00	6	0	0.00	12	0	0.00
00940	CHLORIDE, TOTAL IN WATER	860.	156	0	0.00	48	0	0.00	39	0	0.00	25	0	0.00	44	0	0.00
	Drinking Water	250.	156	0	0.00	48	0	0.00	39	0	0.00	25	0	0.00	44	0	0.00
00945	SULFATE, TOTAL (AS SO4)	250.	175	0	0.00	53	0	0.00	45	0	0.00	28	0	0.00	49	0	0.00
00950	FLUORIDE, DISSOLVED AS F	4.	152	0	0.00	46	0	0.00	39	0	0.00	24	0	0.00	43	0	0.00
01000	ARSENIC, DISSOLVED	360.	95	0	0.00	31	0	0.00	23	0	0.00	15	0	0.00	26	0	0.00
	Drinking Water	50.	95	0	0.00	31	0	0.00	23	0	0.00	15	0	0.00	26	0	0.00
01002	ARSENIC, TOTAL	360.	141	0	0.00	44	0	0.00	36	0	0.00	22	0	0.00	39	0	0.00
	Drinking Water	50.	141	0	0.00	44	0	0.00	36	0	0.00	22	0	0.00	39	0	0.00
01005	BARIUM, DISSOLVED	2000.	96	0	0.00	31	0	0.00	23	0	0.00	15	0	0.00	27	0	0.00
01007	BARIUM, TOTAL	2000.	41	0	0.00	12	0	0.00	11	0	0.00	6	0	0.00	12	0	0.00
01010	BERYLLIUM, DISSOLVED	130.	5	0	0.00	2	0	0.00	1	0	0.00				2	0	0.00
	Drinking Water	4.	1 &	0	0.00										1	0	0.00
01012	BERYLLIUM, TOTAL	130.	32	0	0.00	11	0	0.00	9	0	0.00	4	0	0.00	8	0	0.00
	Drinking Water	4.	0 &	0	0.00												
01025	CADMIUM, DISSOLVED	3.9	98	1	0.01	31	0	0.00	25	1	0.04	16	0	0.00	26	0	0.00
	Drinking Water	5.	98	1	0.01	31	0	0.00	25	1	0.04	16	0	0.00	26	0	0.00
01026	CADMIUM, SUSPENDED	3.9	1 &	0	0.00				1	0	0.00						
	Drinking Water	5.	2	0	0.00				2	0	0.00						
01027	CADMIUM, TOTAL	3.9	141 &	6	0.04	44	2	0.05	36	1	0.03	23	2	0.09	38	1	0.03
	Drinking Water	5.	141 &	5	0.04	44	1	0.02	36	1	0.03	23	2	0.09	38	1	0.03
01030	CHROMIUM, DISSOLVED	100.	115	0	0.00	36	0	0.00	29	0	0.00	19	0	0.00	31	0	0.00
01032	CHROMIUM, HEXAVALENT	16.	20	0	0.00	5	0	0.00	6	0	0.00	4	0	0.00	5	0	0.00
	Drinking Water	100.	20	0	0.00	5	0	0.00	6	0	0.00	4	0	0.00	5	0	0.00
01034	CHROMIUM, TOTAL	100.	137	0	0.00	42	0	0.00	35	0	0.00	22	0	0.00	38	0	0.00
01040	COPPER, DISSOLVED	18.	96	1	0.01	31	0	0.00	23	1	0.04	15	0	0.00	27	0	0.00
	Drinking Water	1300.	96	0	0.00	31	0	0.00	23	0	0.00	15	0	0.00	27	0	0.00
01042	COPPER, TOTAL	18.	157 &	17	0.11	47	5	0.11	39	2	0.05	26	3	0.12	45	7	0.16
	Drinking Water	1300.	160	0	0.00	48	0	0.00	41	0	0.00	26	0	0.00	45	0	0.00
01049	LEAD, DISSOLVED	82.	126	0	0.00	40	0	0.00	32	0	0.00	20	0	0.00	34	0	0.00
	Drinking Water	15.	126	0	0.00	40	0	0.00	32	0	0.00	20	0	0.00	34	0	0.00
01051	LEAD, TOTAL	82.	120 &	2	0.02	39	0	0.00	30	1	0.03	19	1	0.05	32	0	0.00
	Drinking Water	15.	120 &	14	0.12	39	4	0.10	30	3	0.10	19	1	0.05	32	6	0.19
01059	THALLIUM, TOTAL	1400.	7	0	0.00	3	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00
	Drinking Water	2.	0 &	0	0.00												
01065	NICKEL, DISSOLVED	1400.	5	0	0.00	2	0	0.00	1	0	0.00				2	0	0.00
	Drinking Water	100.	5	0	0.00	2	0	0.00	1	0	0.00				2	0	0.00
01067	NICKEL, TOTAL	1400.	32	0	0.00	11	0	0.00	9	0	0.00	4	0	0.00	8	0	0.00
	Drinking Water	100.	32	0	0.00	11	0	0.00	9	0	0.00	4	0	0.00	8	0	0.00
01075	SILVER, DISSOLVED	4.1	95	2	0.02	31	1	0.03	23	0	0.00	15	0	0.00	26	1	0.04
	Drinking Water	100.	95	0	0.00	31	0	0.00	23	0	0.00	15	0	0.00	26	0	0.00
01077	SILVER, TOTAL	4.1	23 &	0	0.00	8	0	0.00	6	0	0.00	3	0	0.00	6	0	0.00
	Drinking Water	100.	41	0	0.00	12	0	0.00	11	0	0.00	6	0	0.00	12	0	0.00
01090	ZINC, DISSOLVED	120.	115	1	0.01	36	0	0.00	29	1	0.03	19	0	0.00	31	0	0.00
	Drinking Water	5000.	115	0	0.00	36	0	0.00	29	0	0.00	19	0	0.00	31	0	0.00
01092	ZINC, TOTAL	120.	140	1	0.01	44	0	0.00	35	0	0.00	22	0	0.00	39	1	0.03
	Drinking Water	5000.	140	0	0.00	44	0	0.00	35	0	0.00	22	0	0.00	39	0	0.00
01095	ANTIMONY, DISSOLVED	88.	5	0	0.00	2	0	0.00	1	0	0.00				2	0	0.00
	Drinking Water	6.	5	0	0.00	2	0	0.00	1	0	0.00				2	0	0.00
01097	ANTIMONY, TOTAL	88.	32	0	0.00	11	0	0.00	9	0	0.00	4	0	0.00	8	0	0.00
	Drinking Water	6.	32	2	0.06	11	1	0.09	9	0	0.00	4	0	0.00	8	1	0.13
01145	SELENIUM, DISSOLVED	20.	95	0	0.00	31	0	0.00	23	0	0.00	15	0	0.00	26	0	0.00
	Drinking Water	50.	95	0	0.00	31	0	0.00	23	0	0.00	15	0	0.00	26	0	0.00
01147	SELENIUM, TOTAL	20.	161	0	0.00	49	0	0.00	42	0	0.00	25	0	0.00	45	0	0.00
	Drinking Water	50.	161	0	0.00	49	0	0.00	42	0	0.00	25	0	0.00	45	0	0.00
07000	TRITIUM, TOTAL	20000.	1	0	0.00										1	0	0.00
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	1000.	1	0	0.00										1	0	0.00
	Other-Hi Lim.																

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

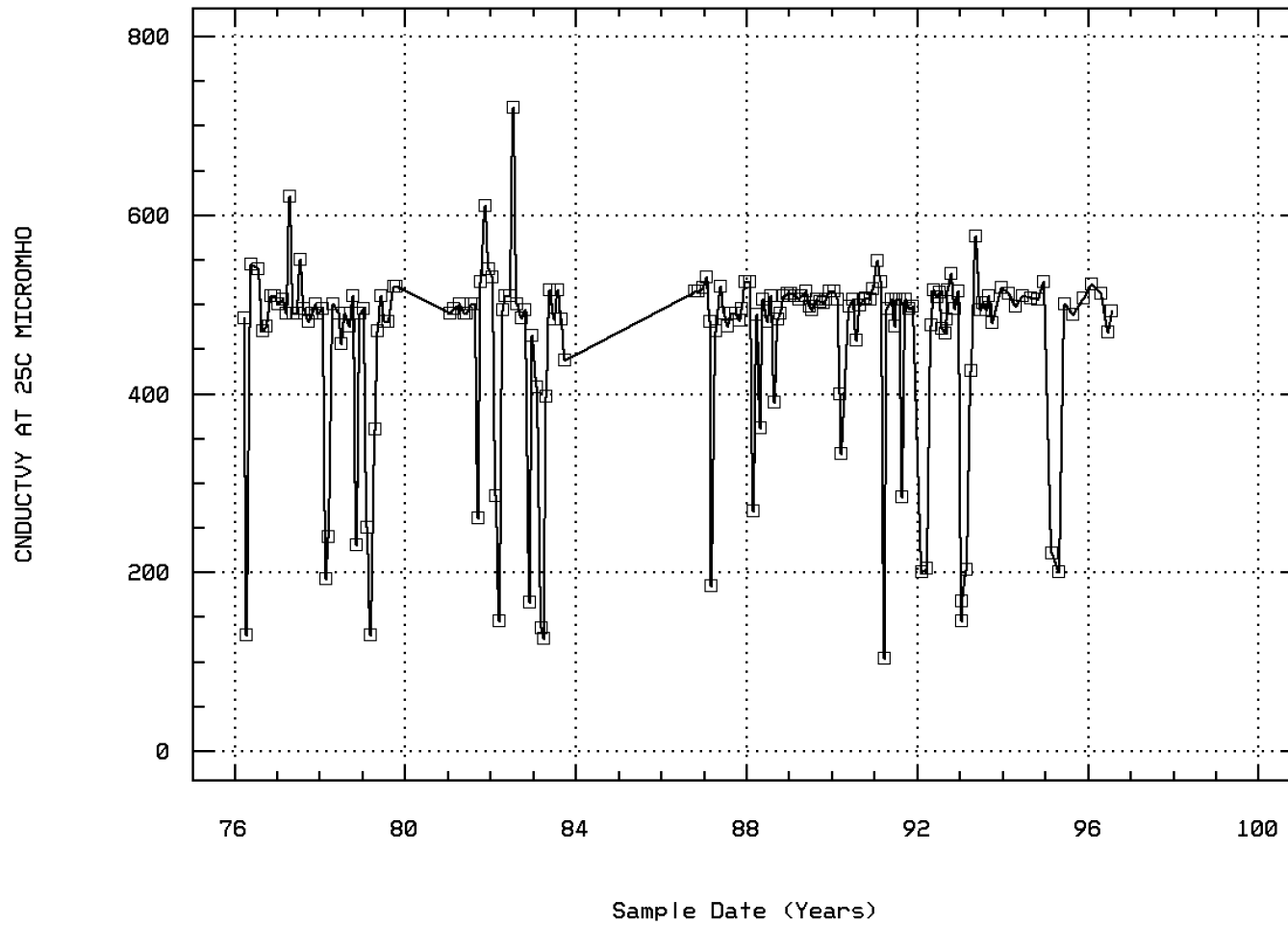
EPA Water Quality Criteria Analysis for Station: TUZI0098

Parameter	Std. Type	Std. Value	Total	Exceed	Prop.	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
			Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	200.	6	1	0.17				2	1	0.50	1	0	0.00	3	0	0.00
31625	FECAL COLIFORM, MF	200.	160	8	0.05	49	2	0.04	42	0	0.00	26	0	0.00	43	6	0.14
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	44.	2	0	0.00	1	0	0.00	1	0	0.00						
71856	NITRITE NITROGEN, DISSOLVED (AS NO2)	3.3	2	0	0.00	1	0	0.00	1	0	0.00						
71890	MERCURY, DISSOLVED	2.4	7	0	0.00	2	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00
	Drinking Water	2.	7	0	0.00	2	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00
71900	MERCURY, TOTAL	2.4	137	0	0.00	42	0	0.00	34	0	0.00	22	0	0.00	39	0	0.00
	Drinking Water	2.	137	0	0.00	42	0	0.00	34	0	0.00	22	0	0.00	39	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station: TUZI0098 Parameter Code: 00095

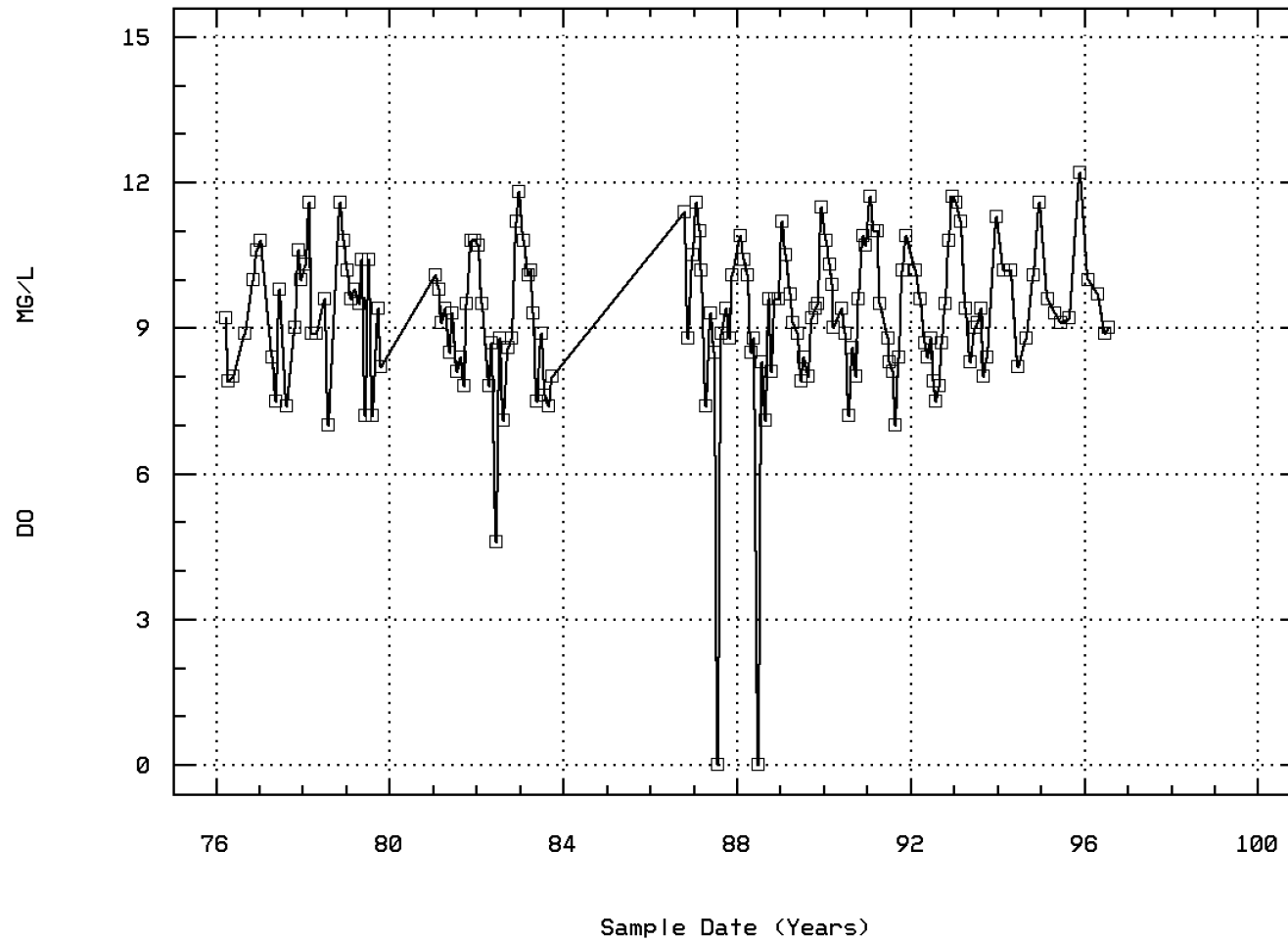
SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 00300

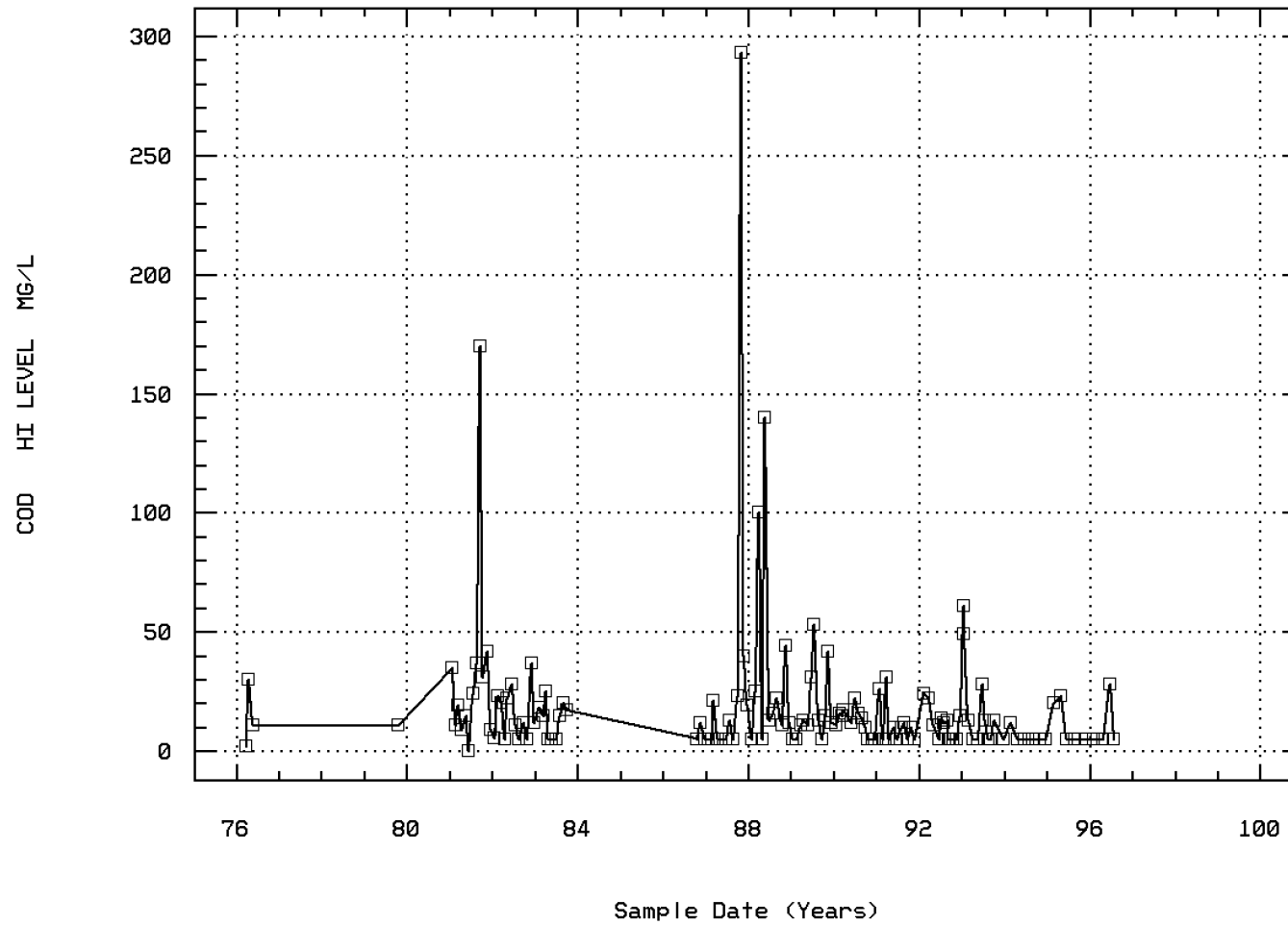
OXYGEN, DISSOLVED



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 00340

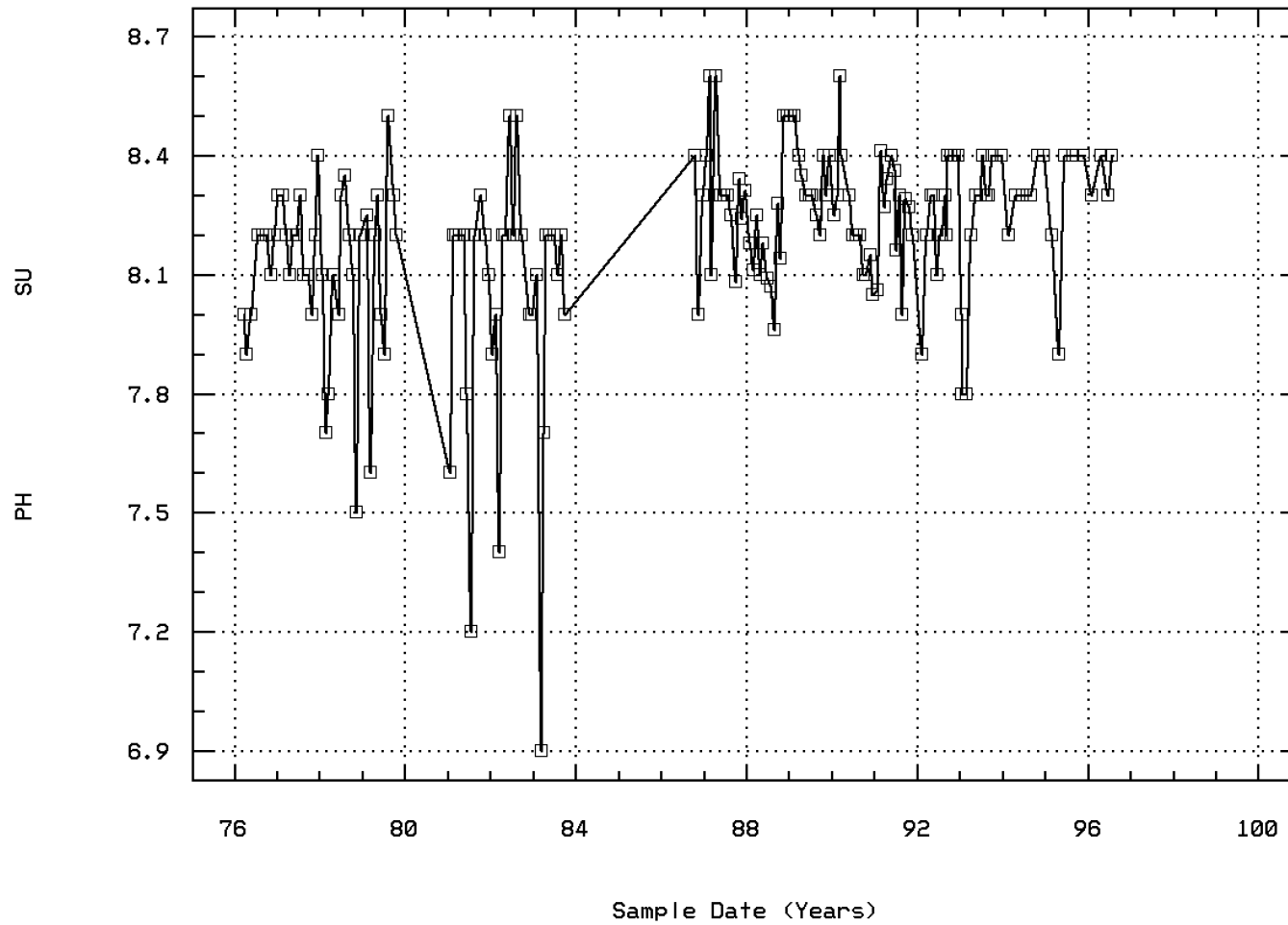
COD, .25N K2CR207



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 00400

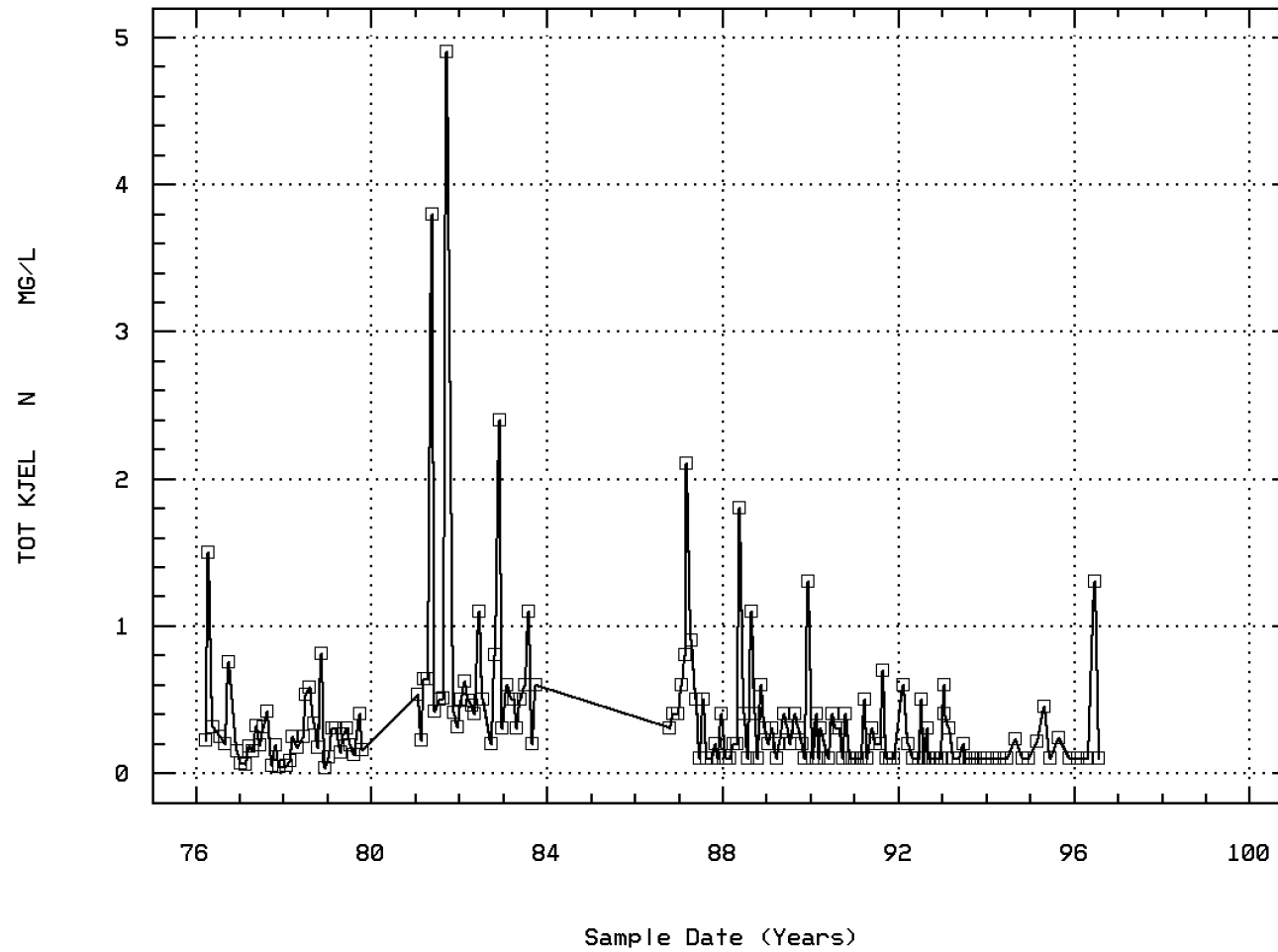
PH (STANDARD UNITS)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 00625

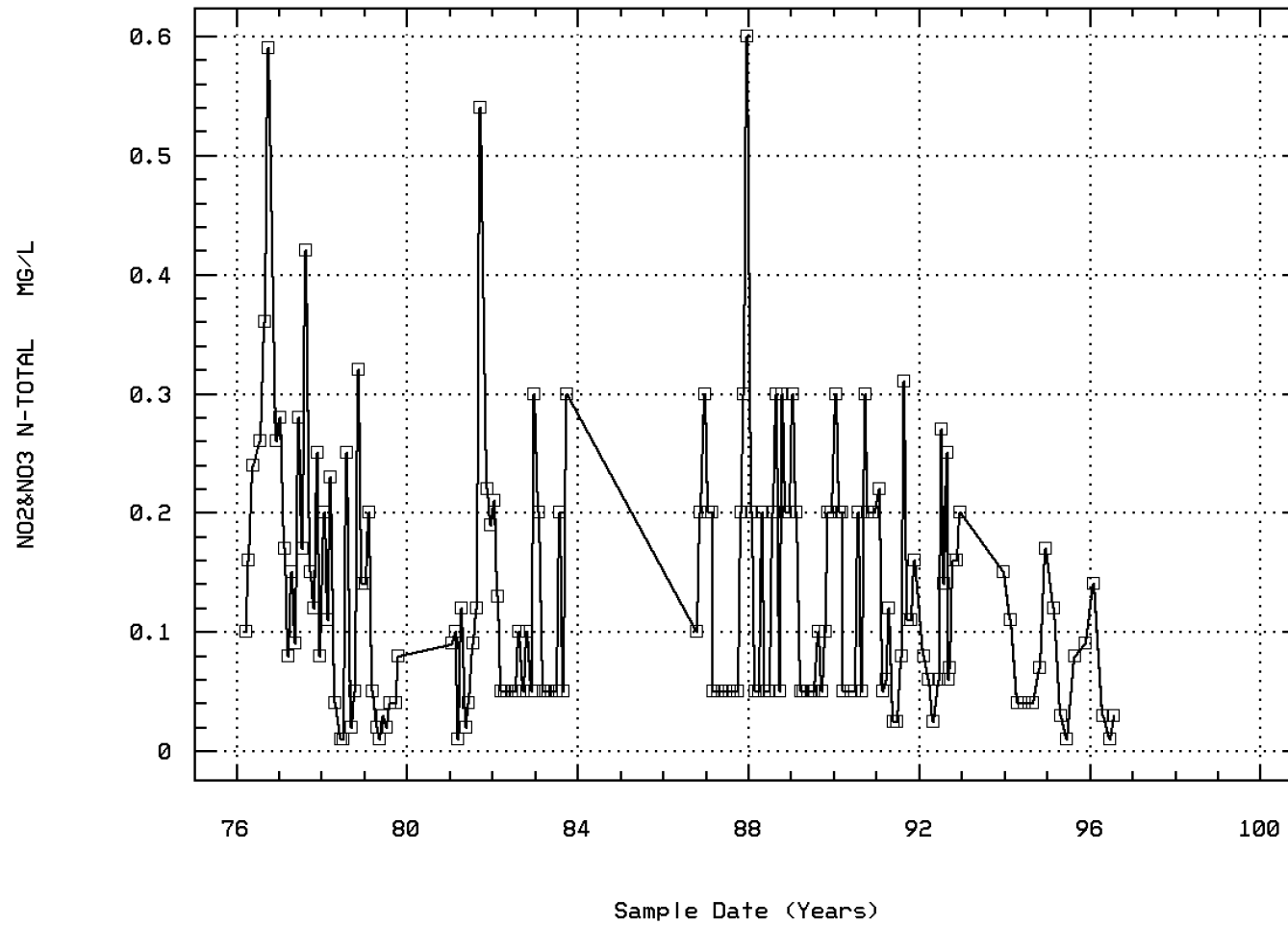
NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 00630

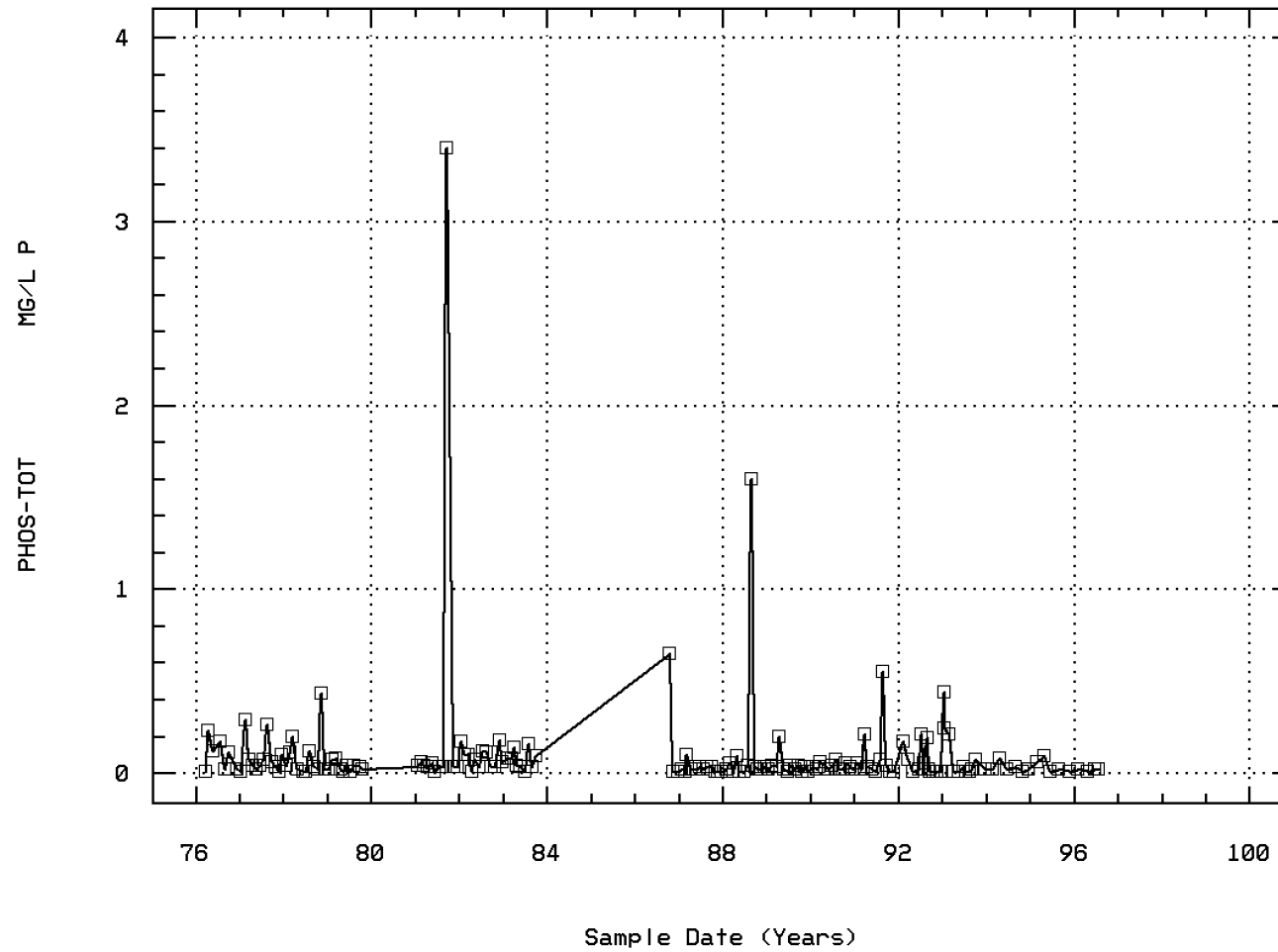
NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 00665

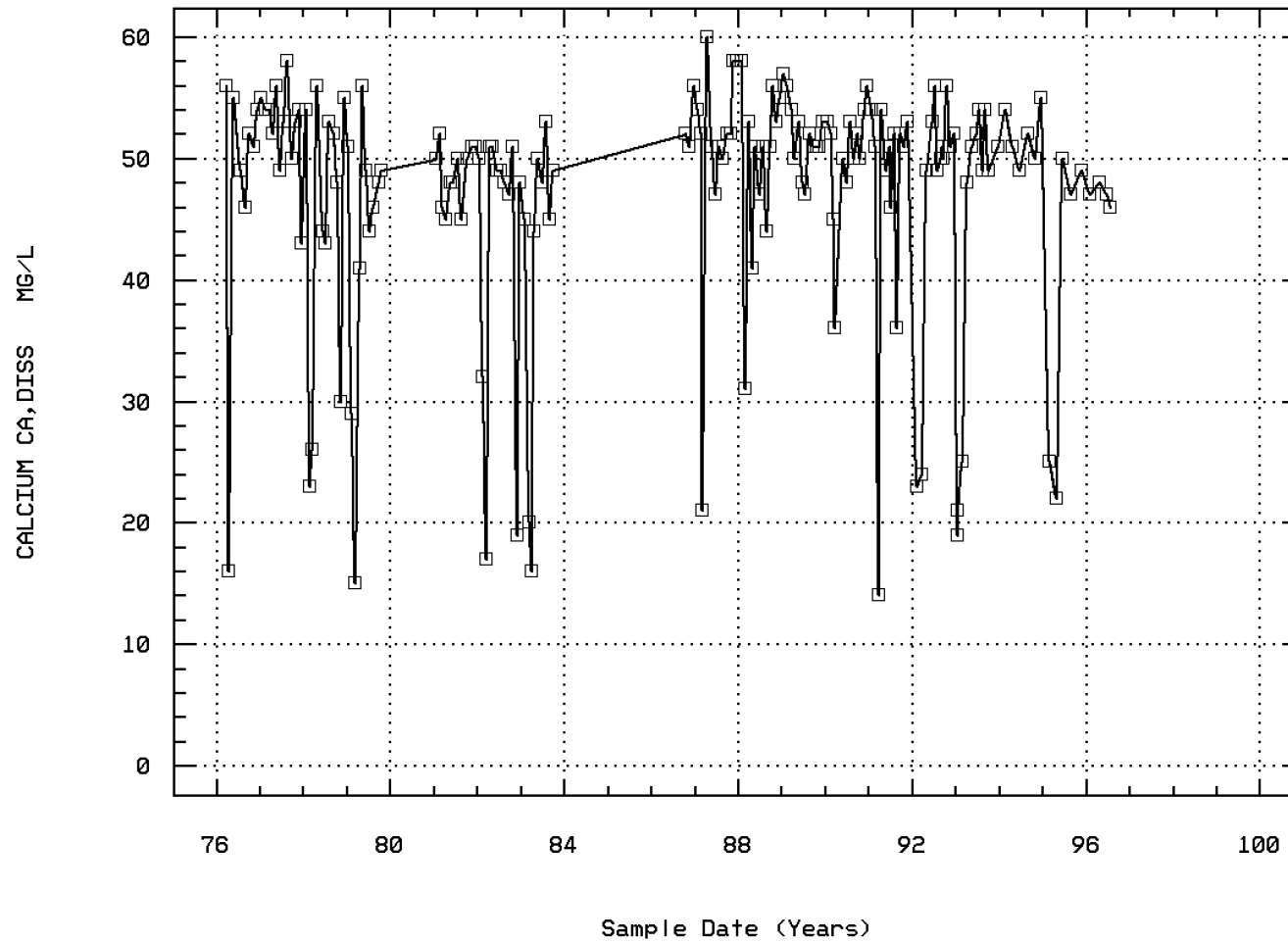
PHOSPHORUS, TOTAL (MG/L AS P)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 00915

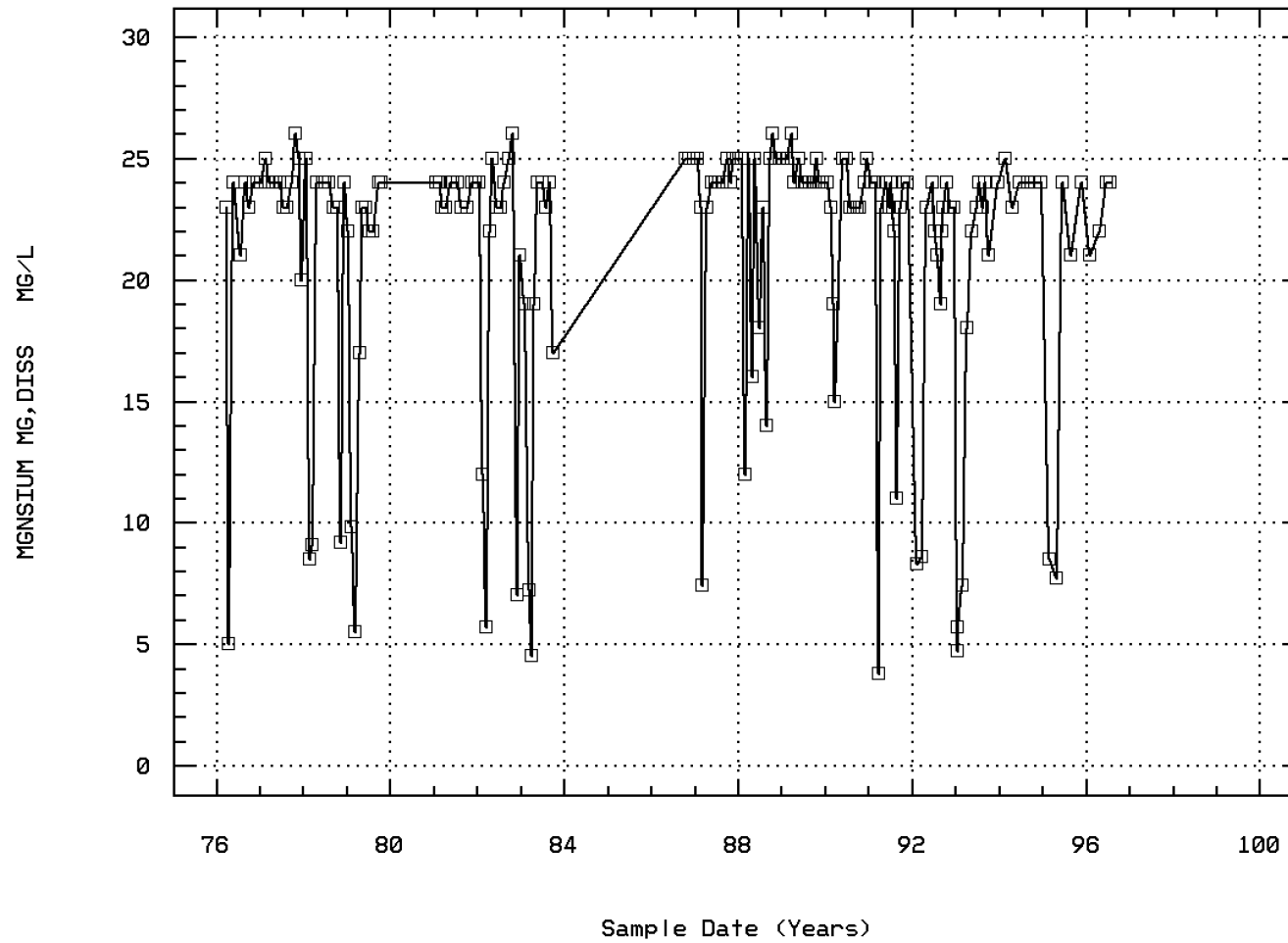
CALCIUM, DISSOLVED (MG/L AS CA)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 00925

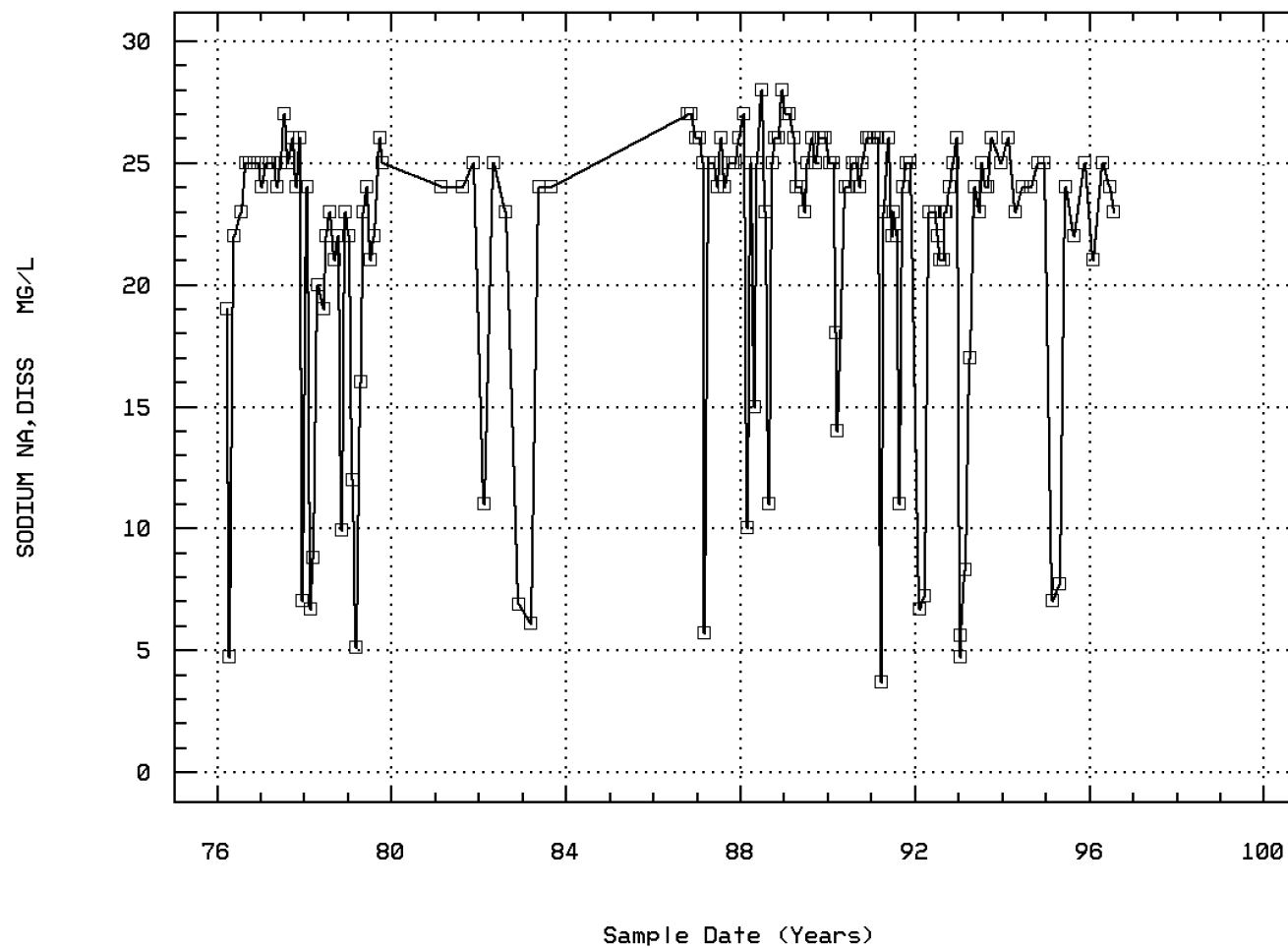
MAGNESIUM, DISSOLVED (MG/L AS MG)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 00930

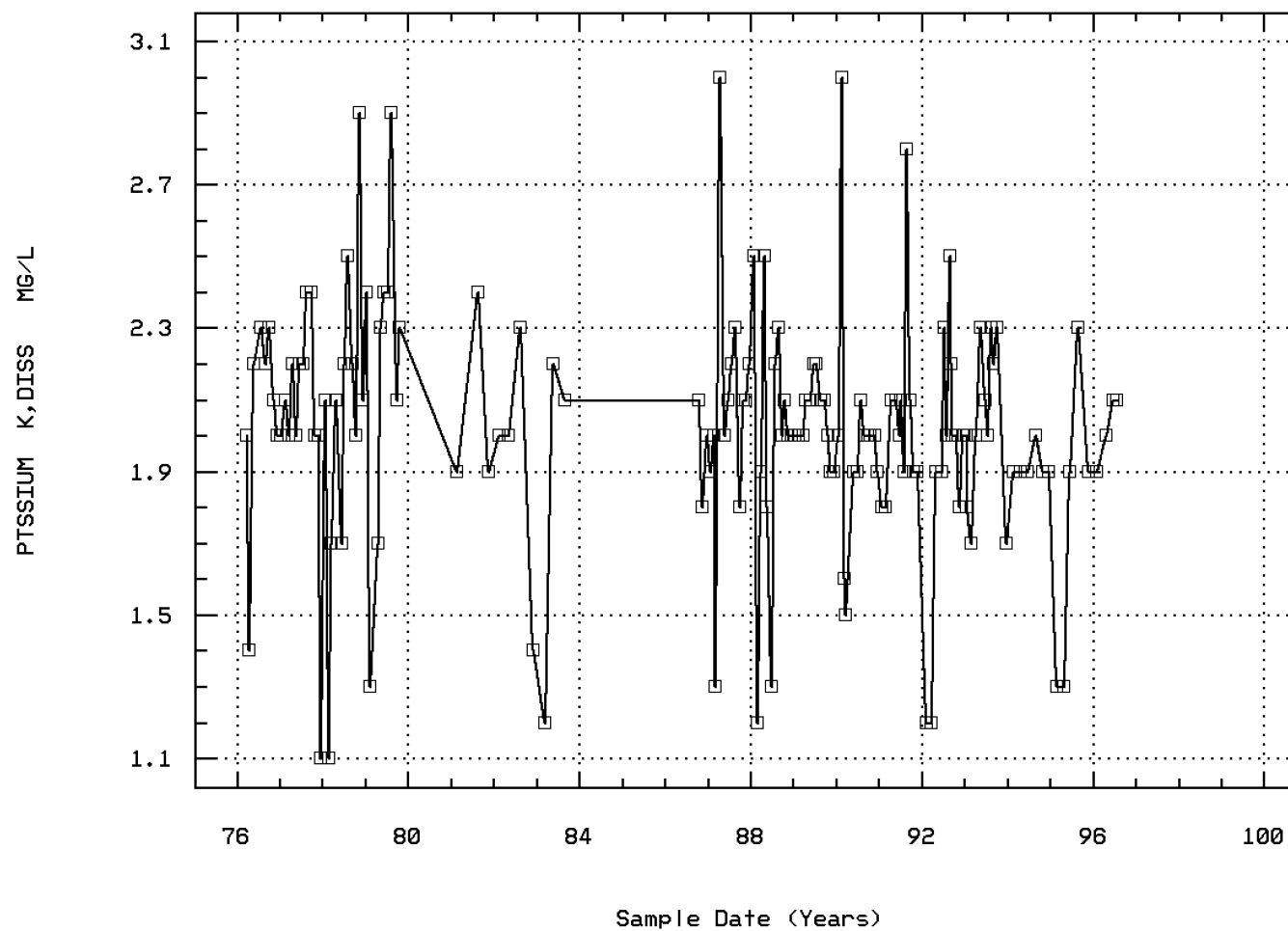
SODIUM, DISSOLVED (MG/L AS NA)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 00935

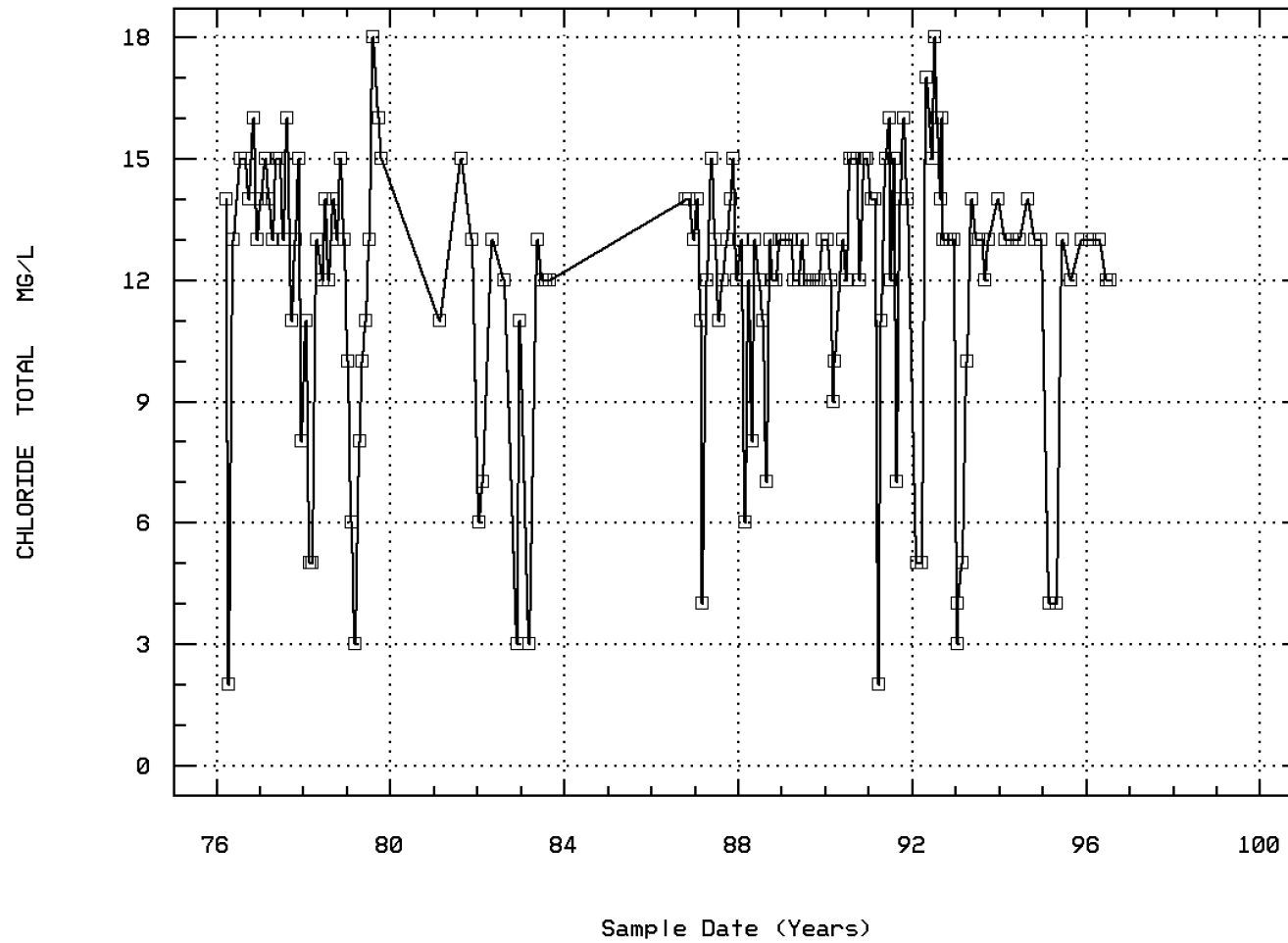
POTASSIUM, DISSOLVED (MG/L AS K)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 00940

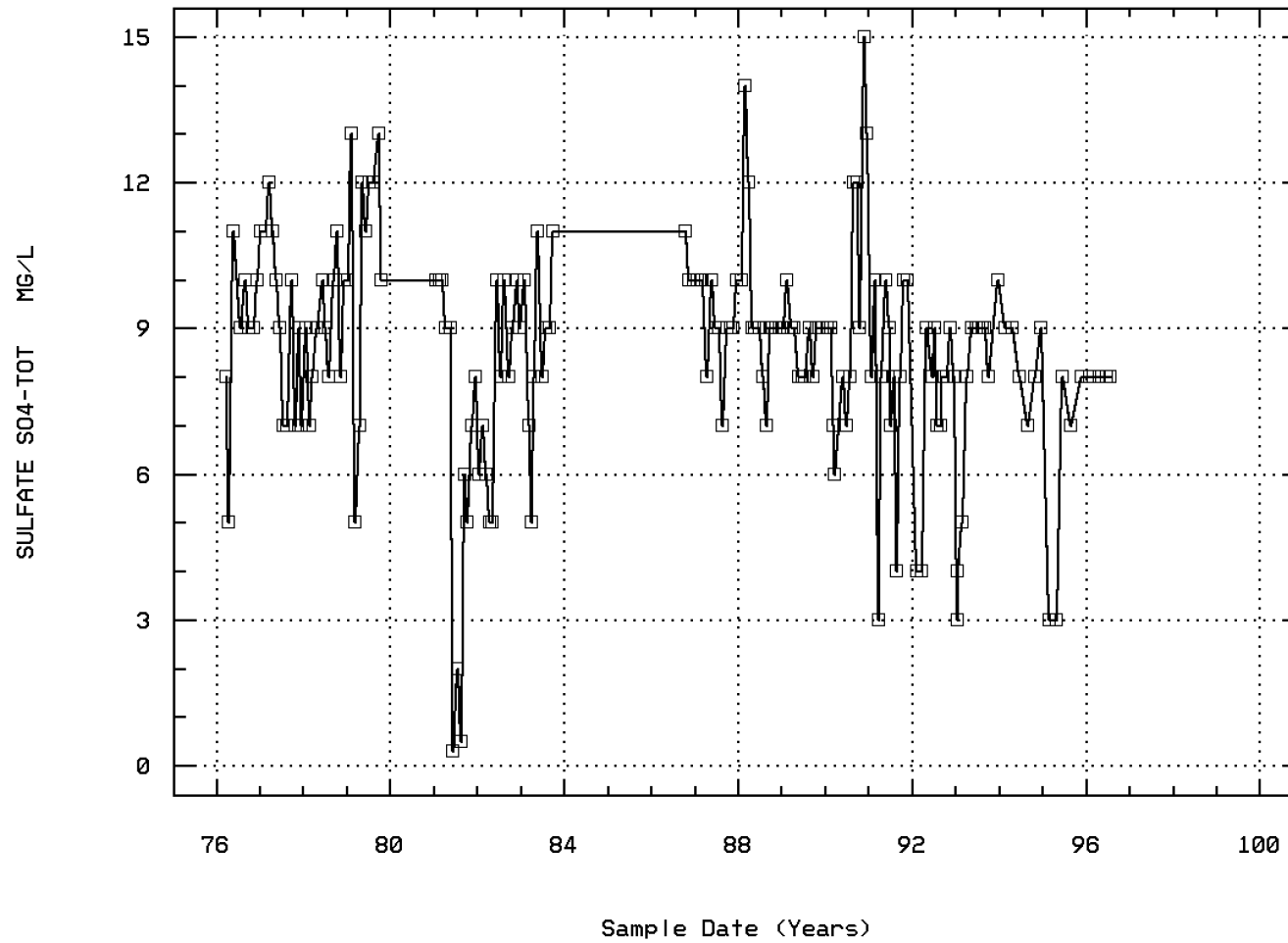
CHLORIDE, TOTAL IN WATER



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 00945

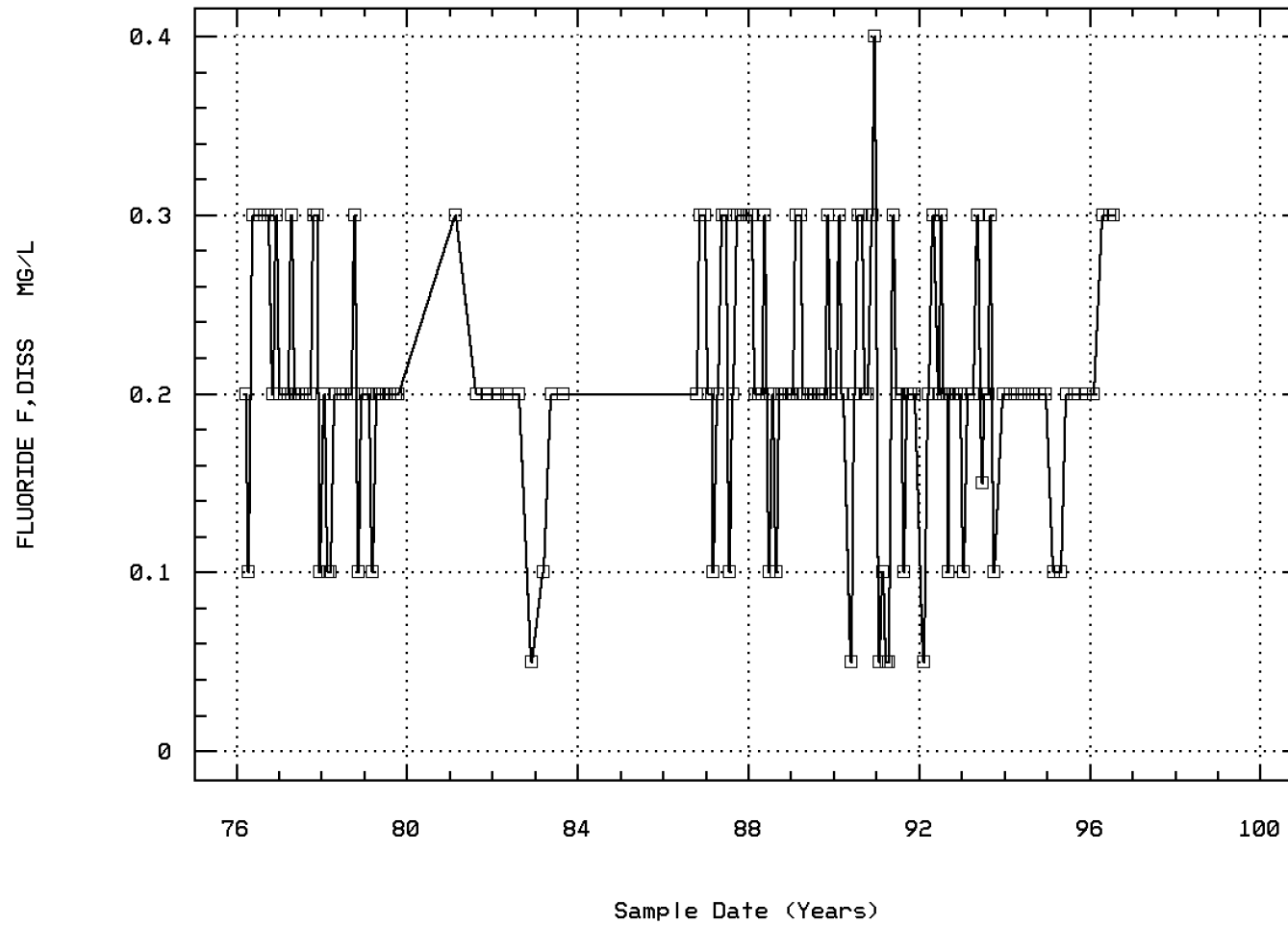
SULFATE, TOTAL (MG/L AS SO₄)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 00950

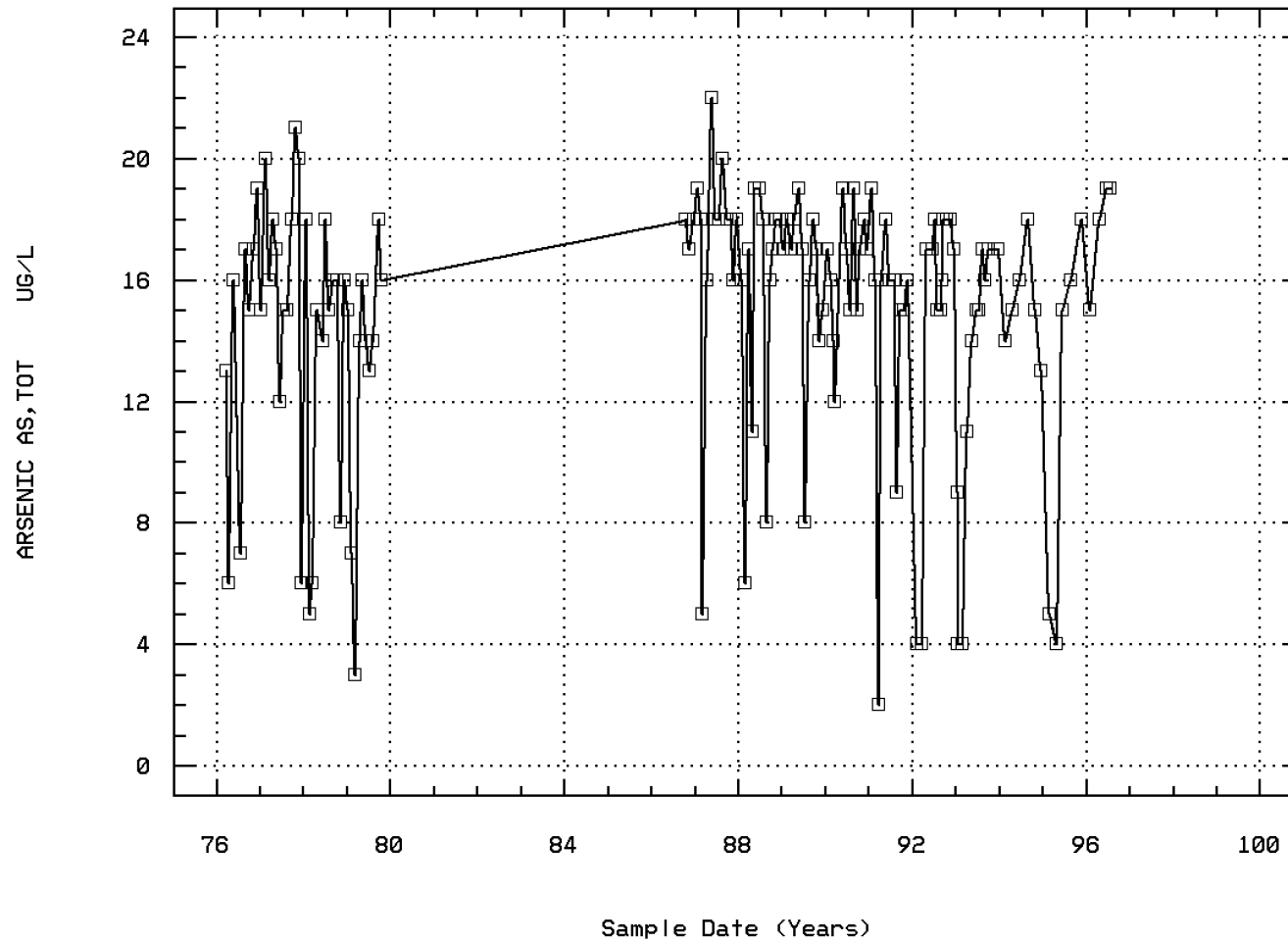
FLUORIDE, DISSOLVED (MG/L AS F)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 01002

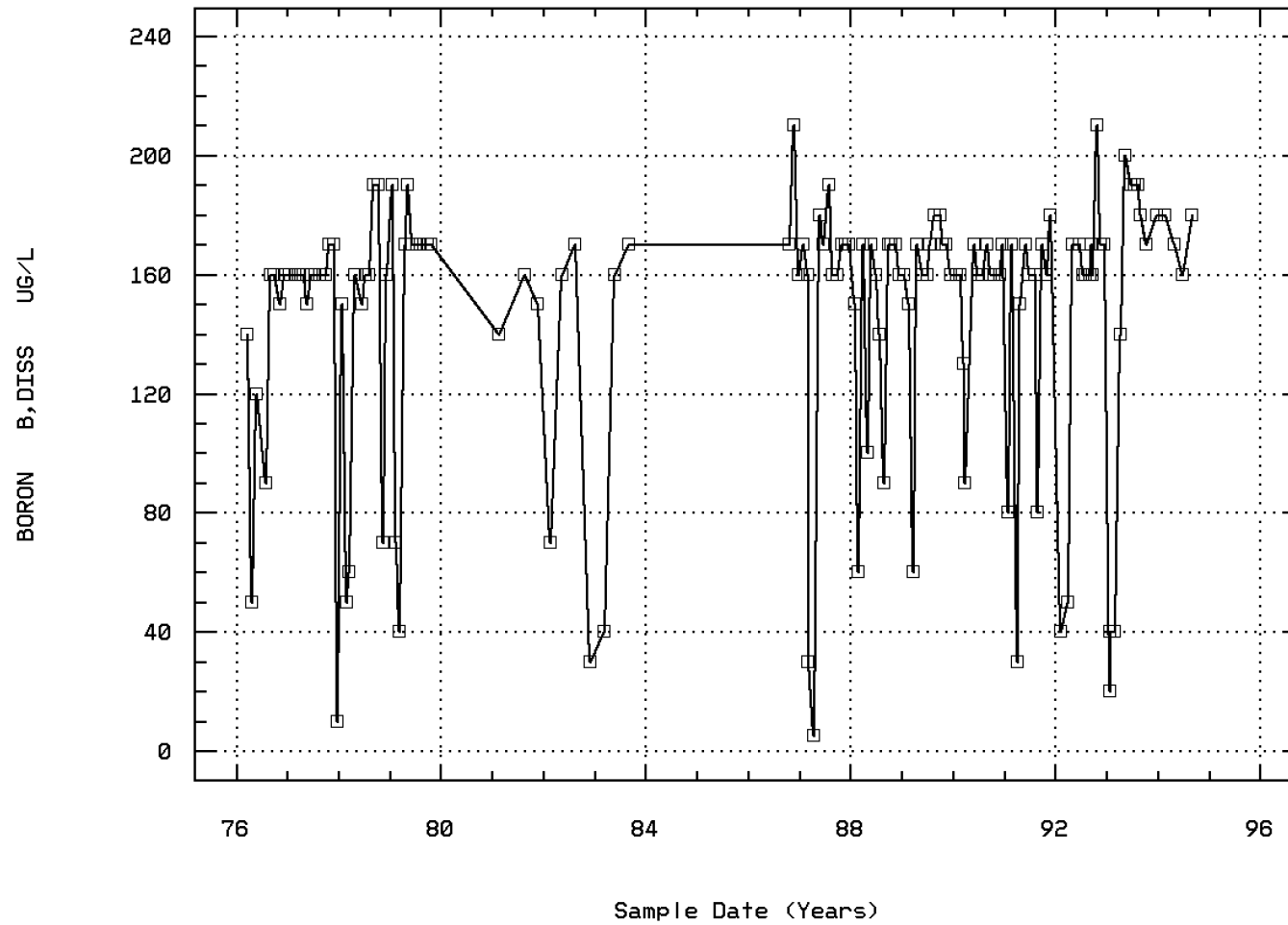
ARSENIC, TOTAL (UG/L AS AS)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 01020

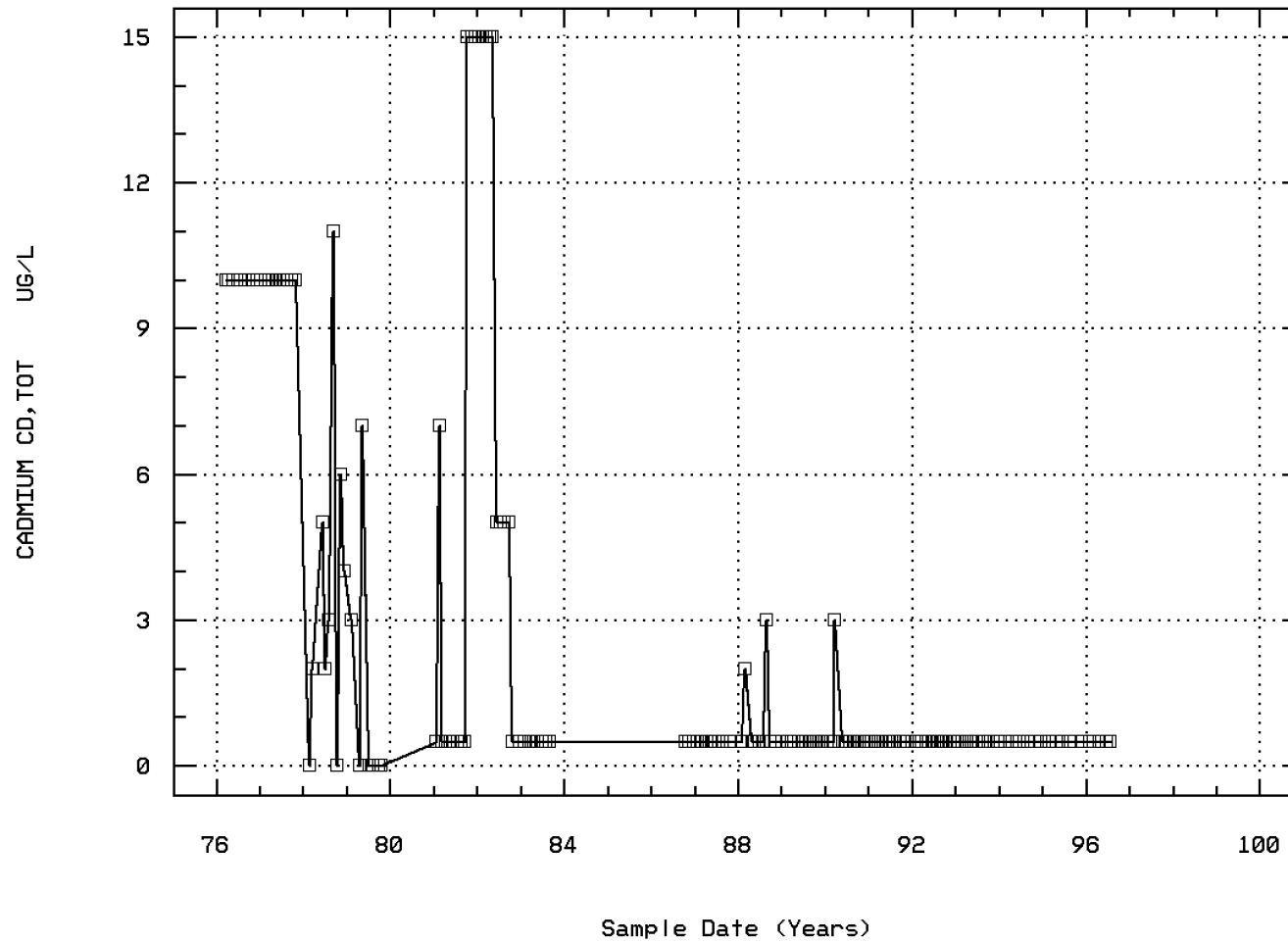
BORON, DISSOLVED (UG/L AS B)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 01027

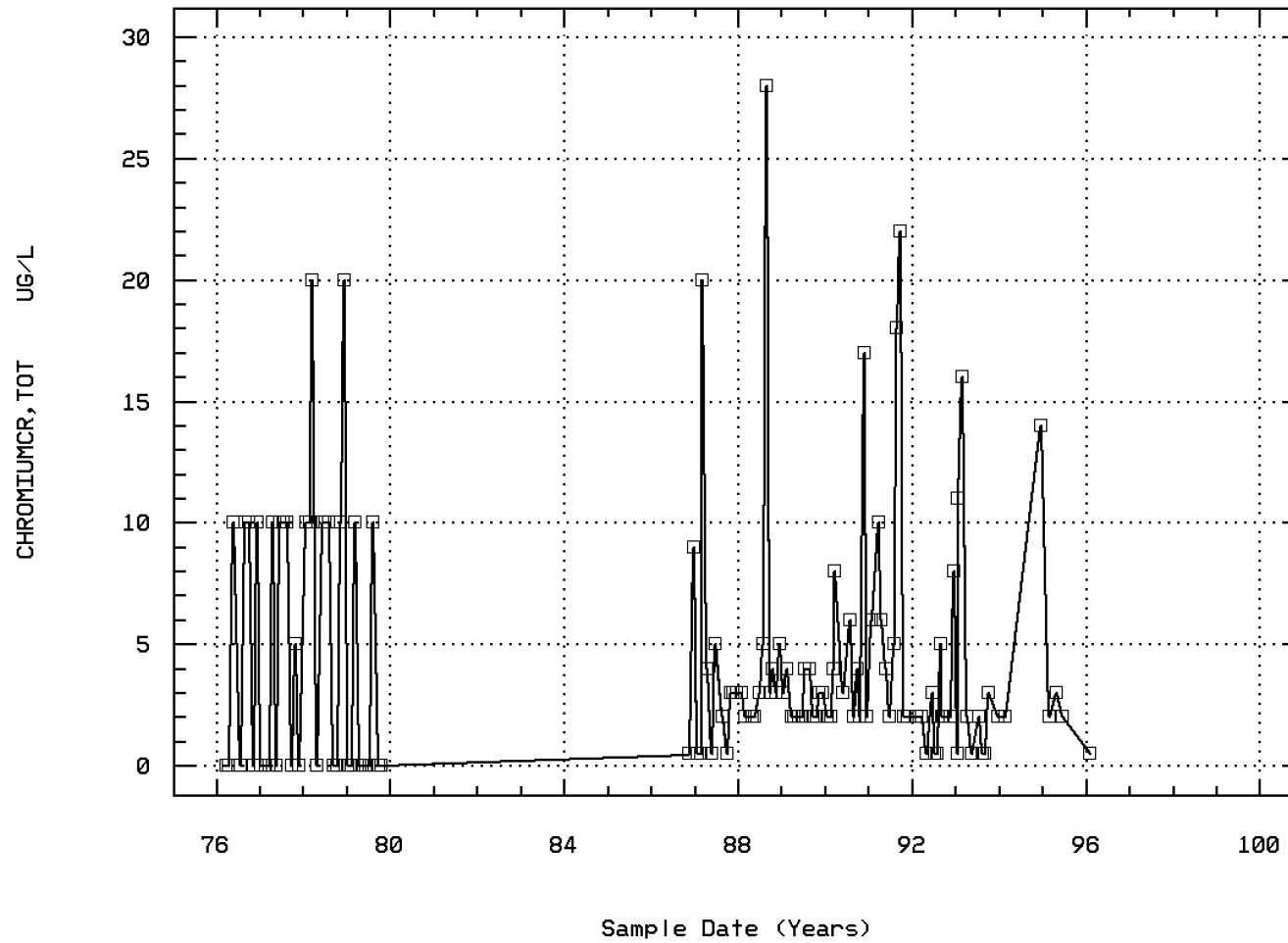
CADMIUM, TOTAL (UG/L AS CD)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 01034

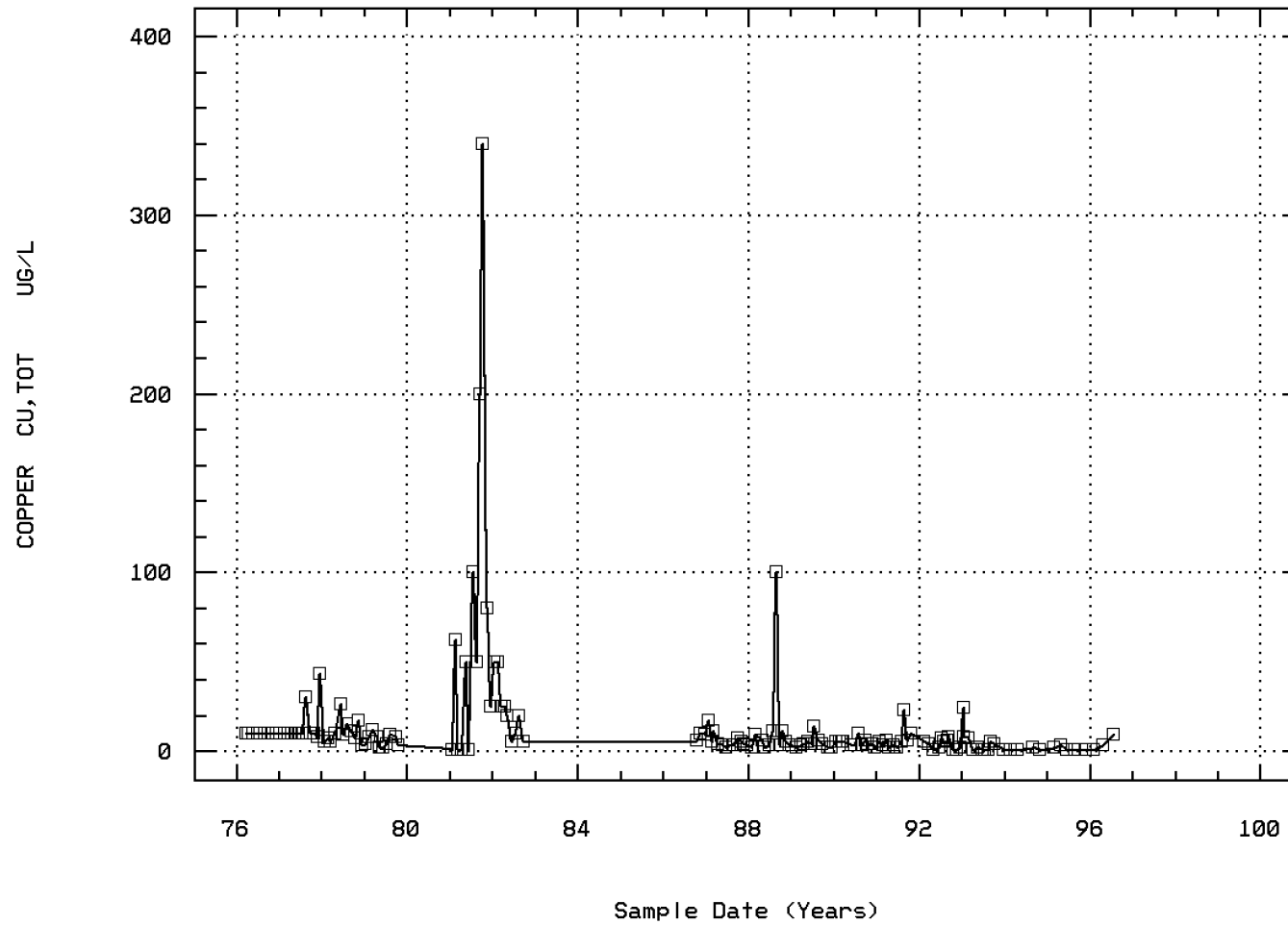
CHROMIUM, TOTAL (UG/L AS CR)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 01042

COPPER, TOTAL (UG/L AS CU)

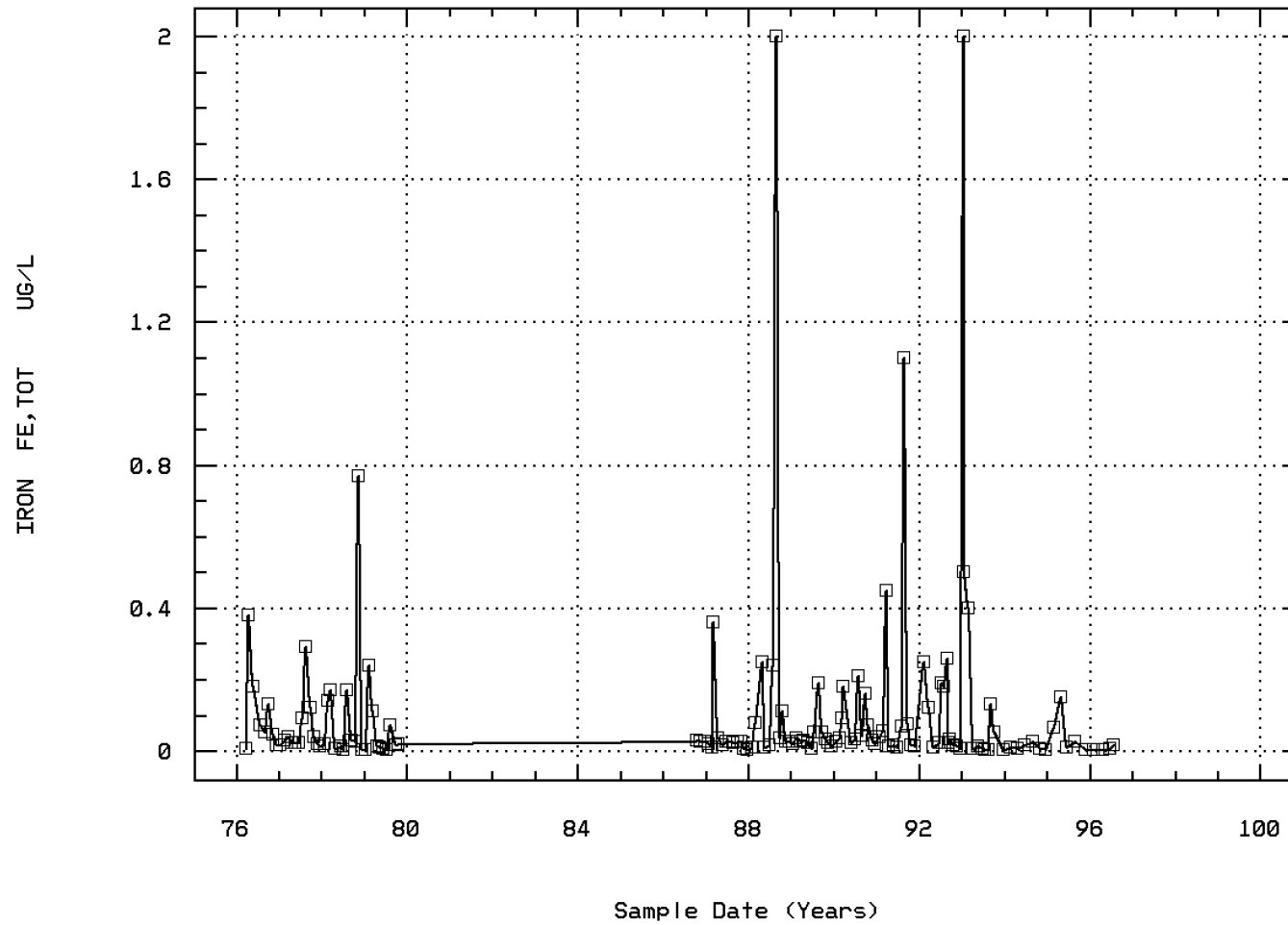


VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 01045

IRON, TOTAL (UG/L AS FE)

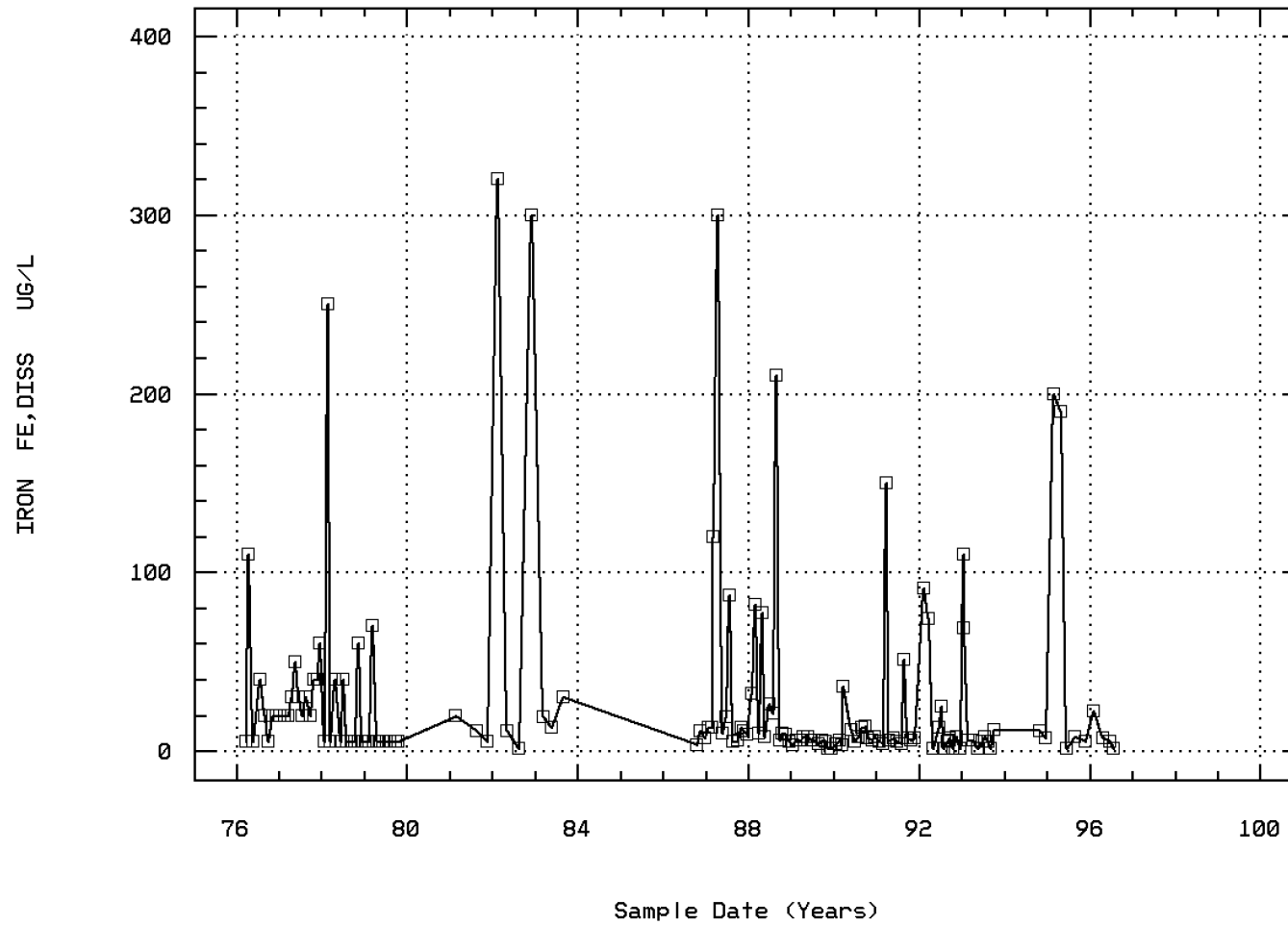
(X 10000)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 01046

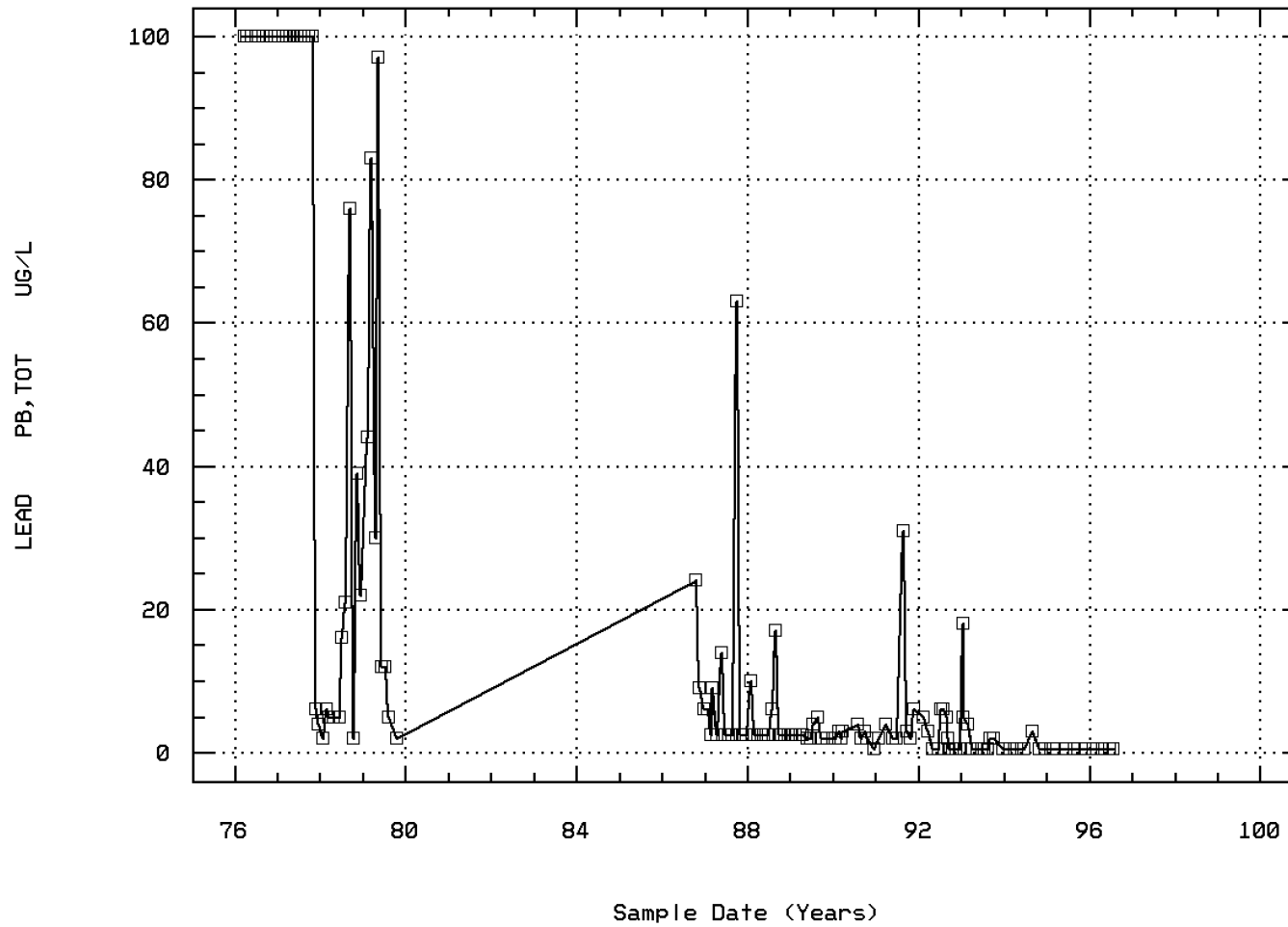
IRON, DISSOLVED (UG/L AS FE)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 01051

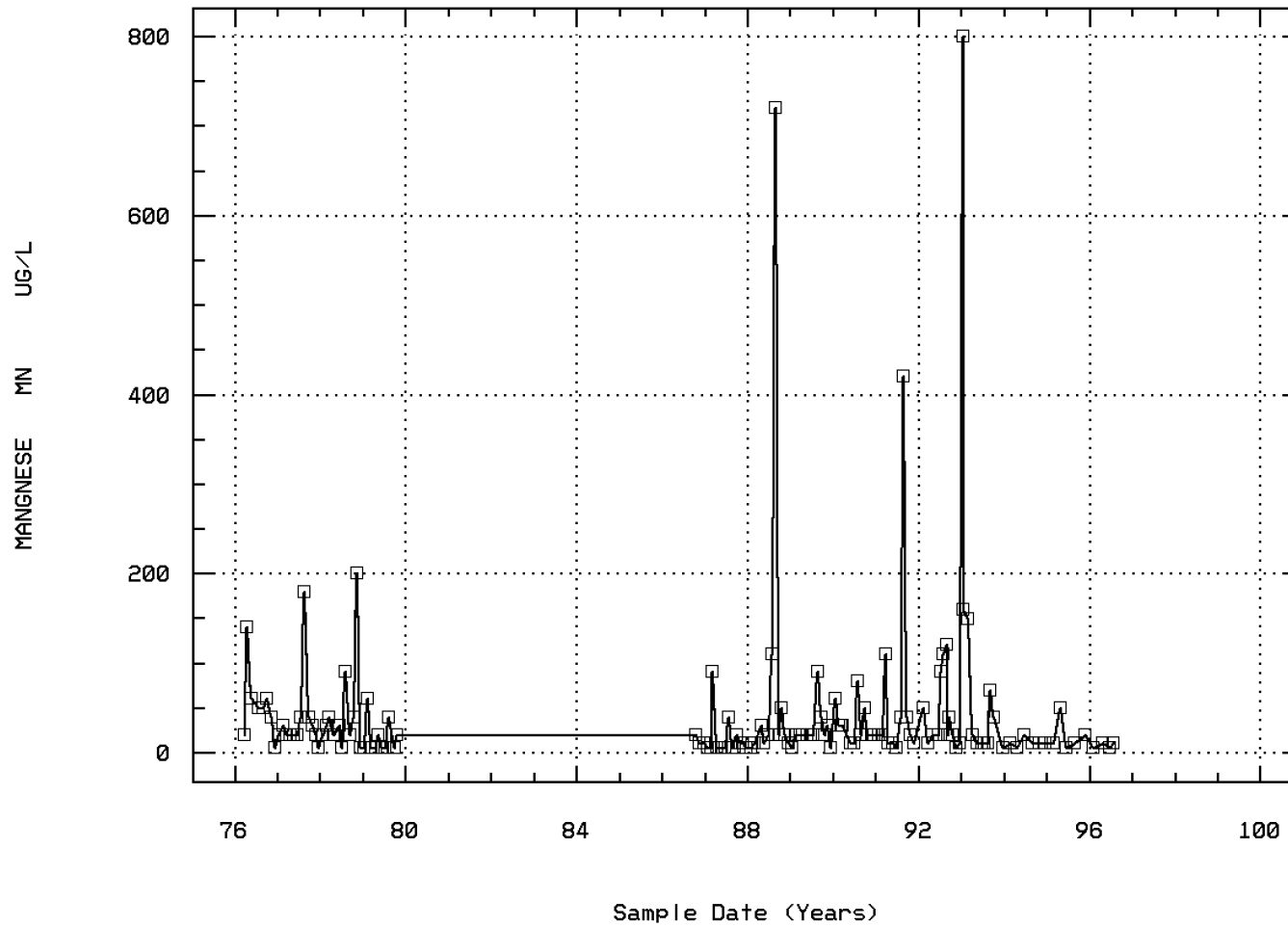
LEAD, TOTAL (UG/L AS PB)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 01055

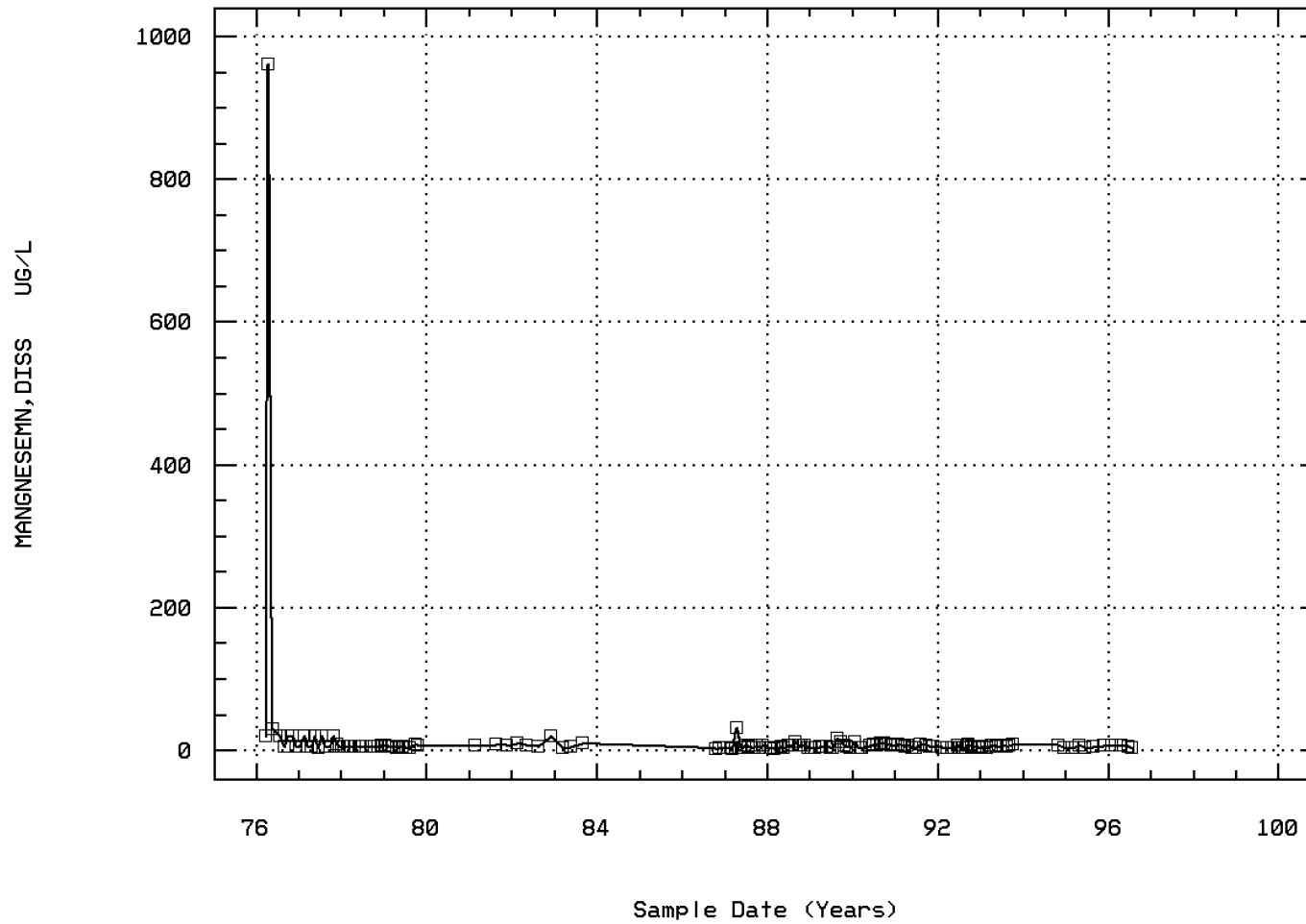
MANGANESE, TOTAL (UG/L AS MN)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 01056

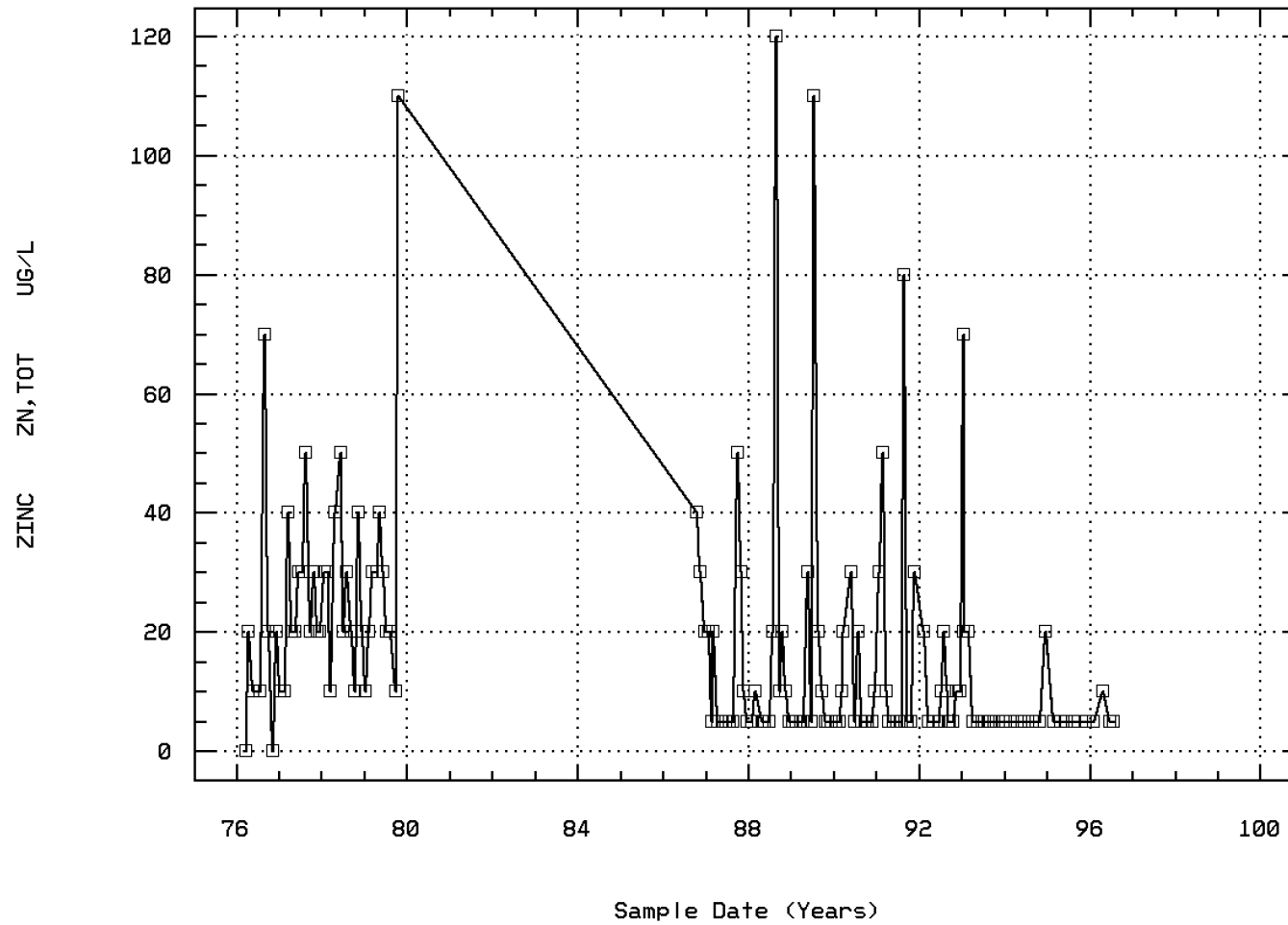
MANGANESE, DISSOLVED (UG/L AS MN)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 01092

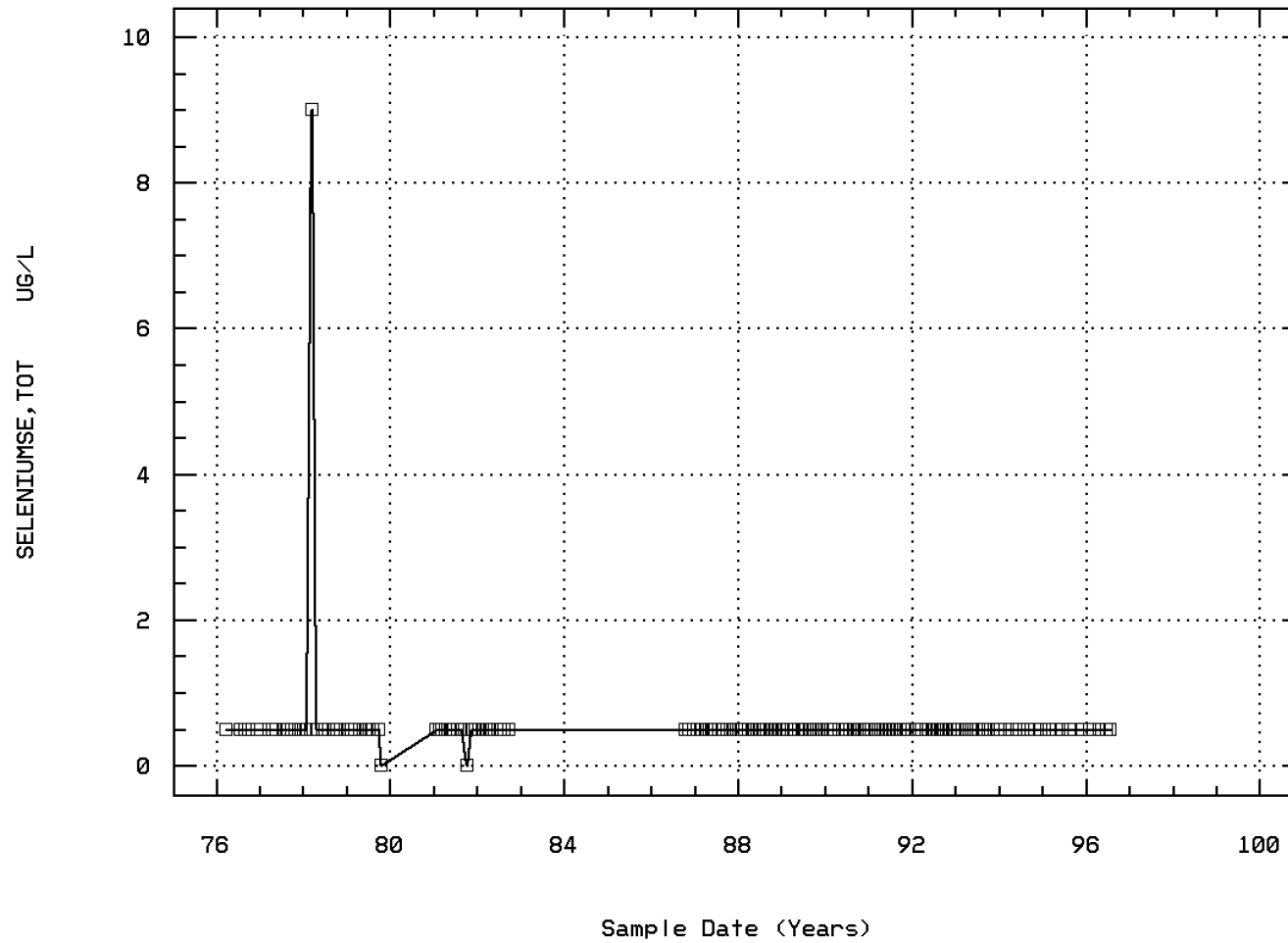
ZINC, TOTAL (UG/L AS ZN)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 01147

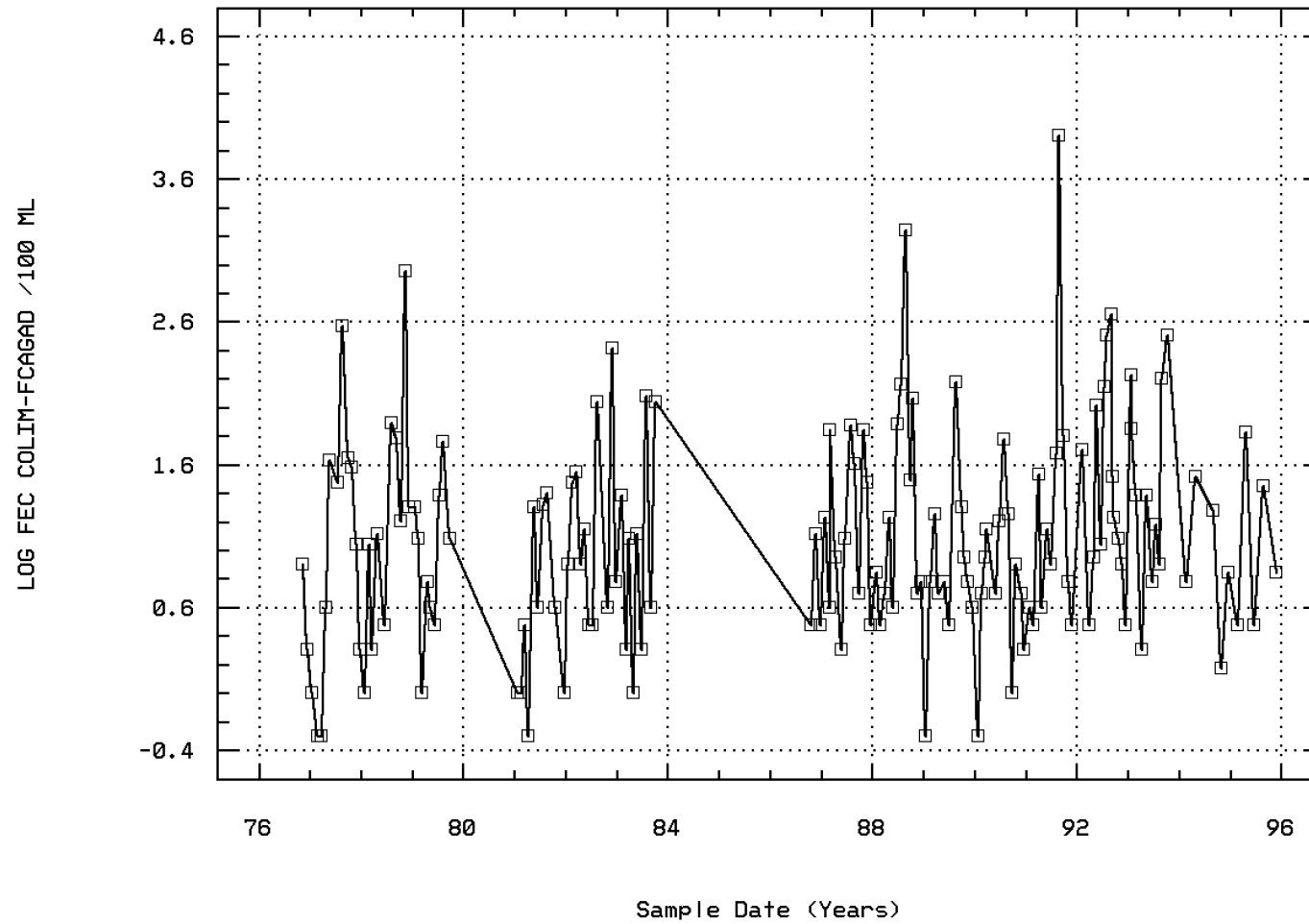
SELENIUM, TOTAL (UG/L AS SE)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 31625

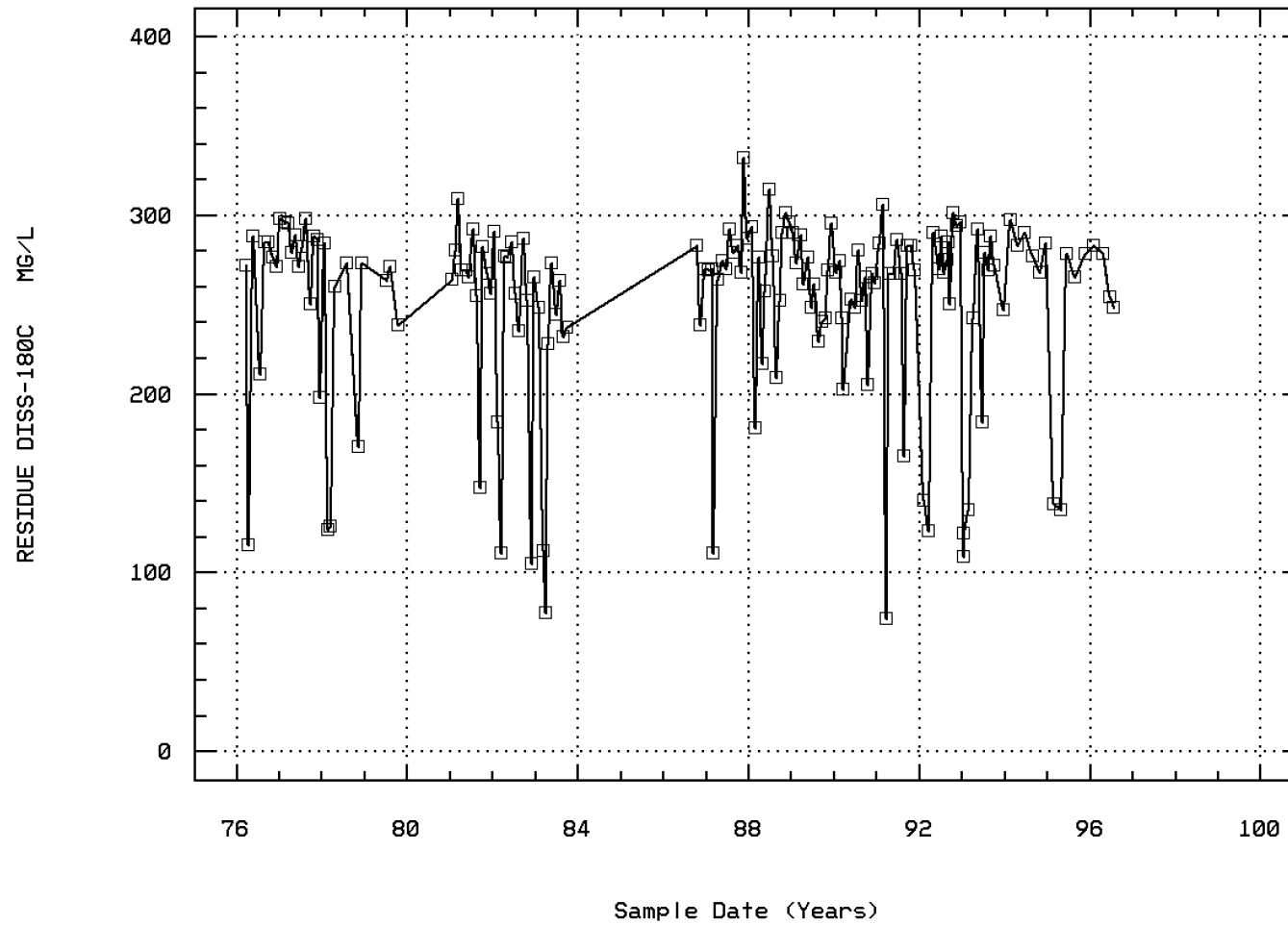
LOG FECAL COLIFORM, MF, M-FC, 0.7 UM



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 70300

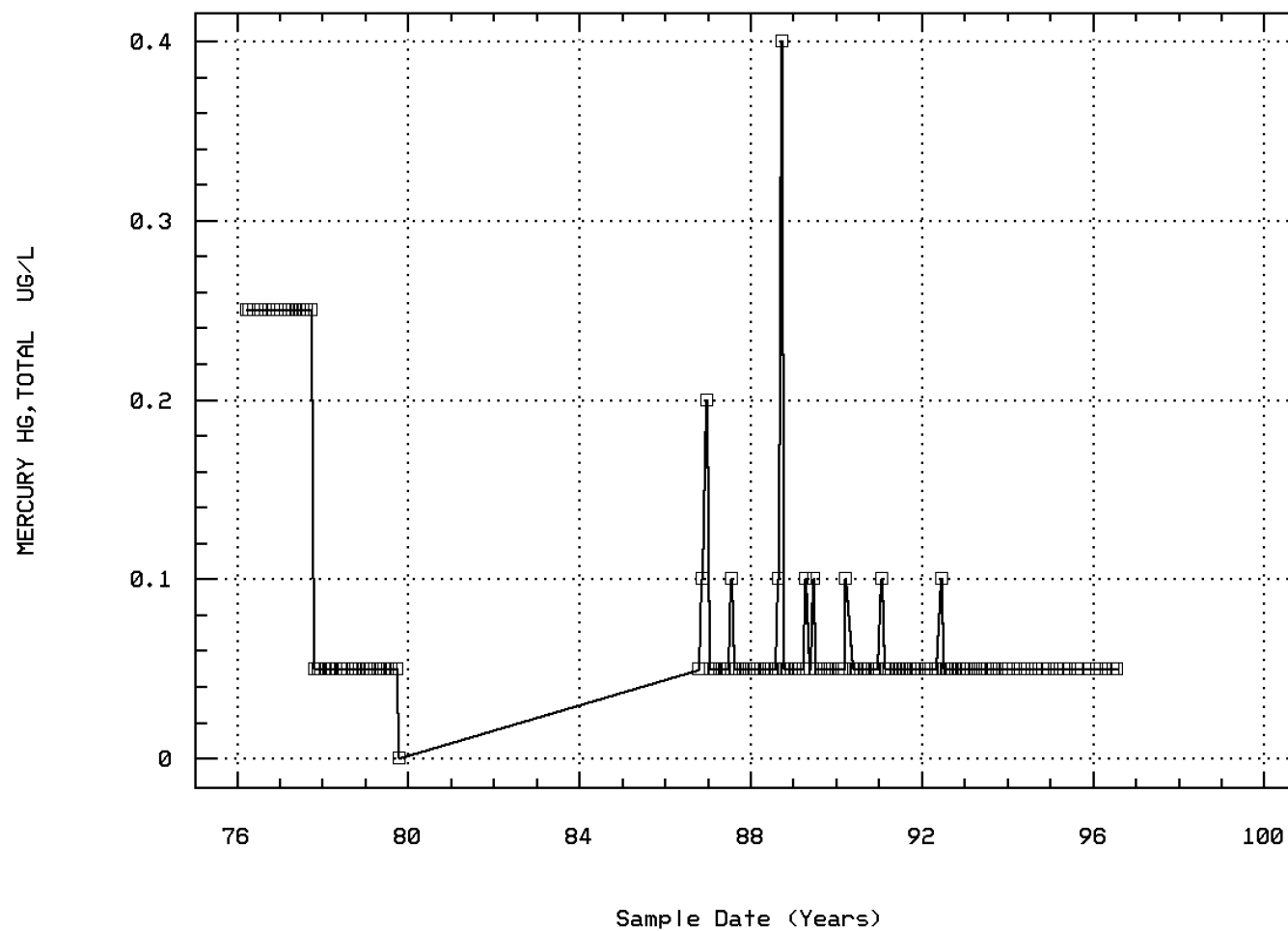
RESIDUE, TOTAL FILTRABLE (DRIED AT 180C)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 71900

MERCURY, TOTAL (UG/L AS HG)



VERDE RIVER NR CLARKDALE, ARIZ.

Annual Analysis for 1976 - Station TUZI0098

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/24/76-07/23/96	8	19.25	19.	27.	11.	31.214	5.587	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/24/76-06/25/96	8	77.5	192.5	1000.	74.	106461.714	326.285	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/24/76-07/23/96	8	497.5	458.125	545.	130.	18349.554	135.461	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	03/24/76-07/23/96	6	9.05	9.1	10.6	7.9	1.152	1.073	**	**	**	**
00340p	COD, .25N K2CR2O7 MG/L	03/24/76-07/23/96	3	11.	14.333	30.	2.	204.333	14.295	**	**	**	**
00400p	PH (STANDARD UNITS)	03/24/76-07/23/96	8	8.15	8.1	8.2	7.9	0.014	0.12	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	03/24/76-07/23/96	8	8.147	8.085	8.2	7.9	0.015	0.121	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/24/76-07/23/96	8	0.007	0.008	0.013	0.006	0.	0.002	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	03/24/76-04/02/91	8	238.	210.375	258.	70.	3806.839	61.7	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	03/24/76-11/17/88	8	290.	256.375	315.	85.	5686.268	75.407	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	03/24/76-11/17/88	8	0.	0.	0.	0.	0.	0.	**	**	**	**
00600	NITROGEN, TOTAL (MG/L AS N)	03/24/76-02/01/83	7	0.55	0.764	1.7	0.32	0.273	0.522	**	**	**	**
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/24/76-07/23/96	7	0.25	0.483	1.5	0.15	0.242	0.492	**	**	**	**
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/24/76-07/23/96	7	0.26	0.281	0.59	0.1	0.025	0.159	**	**	**	**
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	03/24/76-07/23/96	7	0.11	0.096	0.23	0.005	0.007	0.086	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/24/76-10/05/83	7	1.8	3.043	11.	0.7	13.21	3.634	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CaCO3)	03/24/76-03/10/83	8	225.	203.875	240.	61.	3442.982	58.677	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS Ca)	03/24/76-07/23/96	8	51.5	47.375	56.	16.	171.411	13.092	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/24/76-07/23/96	8	23.5	21.	24.	5.	42.857	6.547	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS Na)	03/24/76-07/23/96	8	24.	21.088	25.	4.7	48.376	6.955	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	03/24/76-07/23/96	8	2.15	2.063	2.3	1.4	0.086	0.292	**	**	**	**
00940p	CHLORIDE, TOTAL IN WATER MG/L	03/24/76-07/23/96	8	14.	12.75	16.	2.	19.929	4.464	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/24/76-07/23/96	8	9.	8.875	11.	5.	3.268	1.808	**	**	**	**
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	03/24/76-07/23/96	8	0.3	0.25	0.3	0.1	0.006	0.076	**	**	**	**
01002p	ARSENIC, TOTAL (UG/L AS AS)	03/24/76-07/23/96	8	15.5	13.75	19.	6.	23.071	4.803	**	**	**	**
01020p	BORON, DISSOLVED (UG/L AS B)	03/24/76-08/30/94	8	145.	128.75	160.	50.	1612.5	40.156	**	**	**	**
01022	BORON, TOTAL (UG/L AS B)	03/24/76-07/23/96	8	200.	218.75	360.	170.	3755.357	61.281	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/24/76-07/23/96	3 ###	1.	1.333	3.	0.	2.333	1.528	**	**	**	**
01027p	CADMIUM, TOTAL (UG/L AS CD)	03/24/76-07/23/96	8 ###	10.	10.	10.	10.	0.	0.	**	**	**	**
01034p	CHROMIUM, TOTAL (UG/L AS CR)	03/24/76-07/23/96	8 ###	5.	5.	10.	0.	28.571	5.345	**	**	**	**
01042p	COPPER, TOTAL (UG/L AS CU)	03/24/76-07/23/96	8 ###	10.	10.	10.	10.	0.	0.	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	03/24/76-07/23/96	8	630.	1108.75	3800.	80.	1513726.786	1230.336	**	**	**	**
01046p	IRON, DISSOLVED (UG/L AS FE)	03/24/76-07/23/96	8	20.	28.125	110.	5.	1235.268	35.146	**	**	**	**
01051p	LEAD, TOTAL (UG/L AS PB)	03/24/76-07/23/96	8 ###	100.	100.	100.	100.	0.	0.	**	**	**	**
01055p	MANGANESE, TOTAL (UG/L AS MN)	03/24/76-07/23/96	8	50.	53.125	140.	5.	1606.696	40.084	**	**	**	**
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	03/24/76-07/23/96	8	20.	135.	960.	5.	111192.857	333.456	**	**	**	**
01092p	ZINC, TOTAL (UG/L AS ZN)	03/24/76-07/23/96	8 ###	15.	18.75	70.	0.	498.214	22.321	**	**	**	**
01147p	SELENIUM, TOTAL (UG/L AS SE)	03/24/76-07/23/96	7 ##	0.5	0.643	1.	0.5	0.06	0.244	**	**	**	**
31625p	FECAL COLIFORM, MF,M-FC, 0.7 UM	11/10/76-11/21/95	2	5.	5.	8.	2.	18.	4.243	**	**	**	**
31625p	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	11/10/76-11/21/95	2	0.602	0.602	0.903	0.301	0.181	0.426	**	**	**	**
31625p	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			4.								
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	03/24/76-10/05/83	8	1.	2.	8.	0.	7.714	2.777	**	**	**	**
70300p	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L	03/24/76-07/23/96	8	274.	250.375	288.	115.	3605.696	60.047	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	03/24/76-02/01/83	8	58.25	87.875	310.	43.3	8083.205	89.907	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	03/24/76-02/01/83	8	0.375	0.343	0.39	0.16	0.007	0.081	**	**	**	**
71887	NITROGEN, TOTAL, AS NO3 - MG/L	03/24/76-02/01/83	7	2.4	3.371	7.3	1.4	5.172	2.274	**	**	**	**
71900p	MERCURY, TOTAL (UG/L AS HG)	03/24/76-07/23/96	8 ###	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1977 - Station TUZI0098

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/24/76-07/23/96	12	15.25	17.125	24.5	10.	31.915	5.649	10.15	11.75	23.25	24.2
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/24/76-06/25/96	12	78.5	77.917	82.	73.	11.356	3.37	73.	74.5	80.75	82.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/24/76-07/23/96	12	492.5	508.333	620.	480.	1546.97	39.332	483.	490.	503.75	599.
00300p	OXYGEN, DISSOLVED MG/L	03/24/76-07/23/96	8	9.4	9.188	10.8	7.4	1.761	1.327	**	**	**	**

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Annual Analysis for 1977 - Station TUZI0098

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th	
00400p	PH (STANDARD UNITS)	03/24/76-07/23/96	12	8.2	8.2	8.4	8.	0.013	0.113	8.03	8.1	8.3	8.37
00400p	CONVERTED PH (STANDARD UNITS)	03/24/76-07/23/96	12	8.2	8.187	8.4	8.	0.013	0.114	8.03	8.1	8.3	8.37
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/24/76-07/23/96	12	0.006	0.007	0.01	0.004	0.	0.002	0.004	0.005	0.008	0.009
00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	03/24/76-04/02/91	12	250.	242.583	259.	180.	438.629	20.943	195.	242.5	250.	256.9
00440	BICARBONATE ION (MG/L AS HCO3)	03/24/76-11/17/88	12	310.	298.583	316.	220.	716.447	26.767	238.	294.25	310.	314.2
00445	CARBONATE ION (MG/L AS CO3)	03/24/76-11/17/88	12	0.	0.167	2.	0.	0.333	0.577	0.	0.	0.	1.4
00600	NITROGEN, TOTAL (MG/L AS N)	03/24/76-02/01/83	12	0.305	0.353	0.84	0.09	0.036	0.19	0.123	0.238	0.455	0.732
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/24/76-07/23/96	11	0.18	0.18	0.42	0.04	0.016	0.126	0.042	0.06	0.31	0.4
00630p	NITRITE PLUS NITRATE, TOTAL I DET. (MG/L AS N)	03/24/76-07/23/96	12	0.16	0.187	0.42	0.08	0.011	0.103	0.08	0.098	0.273	0.378
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	03/24/76-07/23/96	12	0.05	0.083	0.29	0.005	0.009	0.094	0.005	0.023	0.093	0.281
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/24/76-10/05/83	12	1.35	1.642	4.4	0.7	1.095	1.047	0.7	0.85	1.925	3.89
00900	HARDNESS, TOTAL (MG/L AS CaCO3)	03/24/76-03/10/83	12	235.	230.	240.	190.	218.182	14.771	199.	222.5	240.	240.
00915p	CALCIUM, DISSOLVED (MG/L AS Ca)	03/24/76-07/23/96	12	53.5	52.583	58.	43.	14.992	3.872	44.8	50.5	54.75	57.4
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/24/76-07/23/96	12	24.	23.833	26.	20.	2.152	1.467	20.9	23.25	24.75	25.7
00930p	SODIUM, DISSOLVED (MG/L AS Na)	03/24/76-07/23/96	12	25.	23.583	27.	7.	28.083	5.299	12.1	24.	25.75	26.7
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	03/24/76-07/23/96	12	2.05	2.05	2.4	1.1	0.112	0.334	1.37	2.	2.2	2.4
00940p	CHLORIDE,TOTAL IN WATER MG/L	03/24/76-07/23/96	12	14.	13.5	16.	8.	4.818	2.195	8.9	13.	15.	15.7
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/24/76-07/23/96	12	9.5	9.25	12.	7.	3.477	1.865	7.	7.	11.	11.7
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	03/24/76-07/23/96	12	0.2	0.217	0.3	0.1	0.003	0.058	0.13	0.2	0.275	0.3
01002p	ARSENIC, TOTAL (UG/L AS AS)	03/24/76-07/23/96	12	16.5	16.083	21.	6.	16.811	4.1	7.8	15.	19.5	20.7
01020p	BORON, DISSOLVED (UG/L AS B)	03/24/76-08/30/94	12	160.	148.333	170.	10.	1924.242	43.866	52.	160.	160.	170.
01022	BORON, TOTAL (UG/L AS B)	03/24/76-07/23/96	12	195.	190.833	240.	50.	2335.606	48.328	89.	190.	210.	240.
01027p	CADMIUM, TOTAL (UG/L AS CD)	03/24/76-07/23/96	12 ##	10.	8.5	10.	1.	12.273	3.503	1.	10.	10.	10.
01034p	CHROMIUM, TOTAL (UG/L AS CR)	03/24/76-07/23/96	11 ##	0.	4.091	10.	0.	24.091	4.908	0.	0.	10.	10.
01042p	COPPER, TOTAL (UG/L AS CU)	03/24/76-07/23/96	12 ##	10.	14.25	43.	8.	116.023	10.771	8.6	10.	10.	39.1
01045p	IRON, TOTAL (UG/L AS FE)	03/24/76-07/23/96	12	265.	609.167	2900.	130.	627408.333	792.091	142.	205.	792.5	2390.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/24/76-07/23/96	12	30.	31.667	60.	20.	178.788	13.371	20.	20.	40.	57.
01051p	LEAD, TOTAL (UG/L AS PB)	03/24/76-07/23/96	12 ##	100.	84.167	100.	4.	1367.606	36.981	4.6	100.	100.	100.
01055p	MANGANESE, TOTAL (UG/L AS MN)	03/24/76-07/23/96	12	20.	37.083	180.	5.	2120.265	46.046	9.5	20.	37.5	138.
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	03/24/76-07/23/96	12 ##	5.	10.167	20.	4.	53.606	7.322	4.3	5.	20.	20.
01092p	ZINC, TOTAL (UG/L AS ZN)	03/24/76-07/23/96	12	20.	25.	50.	10.	136.364	11.677	10.	20.	30.	47.
01147p	SELENIUM, TOTAL (UG/L AS SE)	03/24/76-07/23/96	12 ##	0.5	0.625	1.	0.5	0.051	0.226	0.5	0.5	0.875	1.
31625p	FECAL COLIFORM, MF,M-FC, 0.7 UM	11/10/76-11/21/95	12	10.5	46.167	370.	0.5	10699.561	103.439	0.5	1.25	41.75	272.2
31625p	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	11/10/76-11/21/95	12	1.021	0.937	2.568	-0.301	0.802	0.896	-0.301	0.075	1.62	2.291
31625p	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			8.65								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/20/77-11/21/95	1	2600.	2600.	2600.	2600.	0.	0.	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/20/77-11/21/95	1	3.415	3.415	3.415	3.415	0.	0.	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			2600.								
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	03/24/76-10/05/83	11	2.	1.909	5.	0.	2.091	1.446	0.	1.	3.	4.6
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/24/76-07/23/96	12	287.	277.5	298.	198.	813.182	28.516	213.6	273.	295.75	298.
70302	SOLIDS, DISSOLVED-TONS PER DAY	03/24/76-02/01/83	12	59.55	58.483	65.9	39.	53.651	7.325	43.32	55.	64.125	65.72
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	03/24/76-02/01/83	12	0.39	0.378	0.41	0.27	0.002	0.039	0.291	0.373	0.4	0.41
71887	NITROGEN, TOTAL, AS NO3 - MG/L	03/24/76-02/01/83	11	1.4	1.673	3.7	0.9	0.612	0.782	0.92	1.2	2.1	3.38
71900p	MERCURY, TOTAL (UG/L AS HG)	03/24/76-07/23/96	12 ##	0.25	0.2	0.25	0.05	0.008	0.09	0.05	0.1	0.25	0.25

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Annual Analysis for 1978 - Station TUZI0098

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/24/76-07/23/96	11	16.	16.909	25.5	7.	51.841	7.2	7.4	10.	25.	25.4
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/10/78-07/23/96	2	34.5	34.5	35.	34.	0.5	0.707	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/24/76-06/25/96	11	71.	147.364	578.	59.	27013.455	164.358	60.	66.	149.	529.8
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/24/76-07/23/96	11	490.	415.364	510.	193.	15893.855	126.071	200.4	240.	495.	508.
00300p	OXYGEN, DISSOLVED MG/L	03/24/76-07/23/96	8	9.95	9.837	11.6	7.	2.46	1.568	**	**	**	**
00400p	PH (STANDARD UNITS)	03/24/76-07/23/96	11	8.1	8.032	8.35	7.5	0.069	0.263	7.54	7.8	8.2	8.34
00400p	CONVERTED PH (STANDARD UNITS)	03/24/76-07/23/96	11	8.1	7.95	8.35	7.5	0.076	0.277	7.54	7.8	8.2	8.34

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Annual Analysis for 1978 - Station TUZI0098

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/24/76-07/23/96	11	0.008	0.011	0.032	0.004	0.	0.008	0.005	0.016	0.029
00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	03/24/76-04/02/91	11	240.	202.545	250.	90.	4563.273	67.552	91.6	110.	250.
00440	BICARBONATE ION (MG/L AS HCO3)	03/24/76-11/17/88	11	290.	247.273	310.	110.	6921.818	83.197	112.	130.	310.
00445	CARBONATE ION (MG/L AS CO3)	03/24/76-11/17/88	10	0.	0.1	1.	0.	0.1	0.316	0.	0.	0.9
00600	NITROGEN, TOTAL (MG/L AS N)	03/24/76-02/01/83	11	0.26	0.419	1.1	0.17	0.091	0.301	0.174	0.21	0.54
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/24/76-07/23/96	11	0.25	0.296	0.81	0.03	0.062	0.248	0.034	0.08	0.53
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/24/76-07/23/96	11	0.11	0.125	0.32	0.01	0.012	0.11	0.01	0.02	0.23
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	03/24/76-07/23/96	11	0.03	0.091	0.43	0.005	0.016	0.128	0.006	0.02	0.12
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/24/76-10/05/83	11	1.7	3.418	13.	0.7	13.634	3.692	0.7	0.9	5.3
00900	HARDNESS, TOTAL (MG/L AS CaCO3)	03/24/76-03/10/83	11	210.	191.091	240.	92.	3529.091	59.406	93.6	110.	240.
00915p	CALCIUM, DISSOLVED (MG/L AS Ca)	03/24/76-07/23/96	11	48.	44.	56.	23.	148.8	12.198	23.6	30.	54.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/24/76-07/23/96	11	24.	19.8	25.	8.5	49.026	7.002	8.62	9.2	24.
00930p	SODIUM, DISSOLVED (MG/L AS Na)	03/24/76-07/23/96	11	21.	18.127	24.	6.7	40.976	6.401	7.12	9.9	23.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	03/24/76-07/23/96	11	2.1	2.055	2.9	1.1	0.213	0.461	1.22	1.7	2.2
00940p	CHLORIDE, TOTAL IN WATER MG/L	03/24/76-07/23/96	11	13.	11.545	15.	5.	11.673	3.417	5.	11.	14.
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/24/76-07/23/96	11	9.	9.	11.	7.	1.4	1.183	7.2	8.	10.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	03/24/76-07/23/96	11	0.2	0.182	0.3	0.1	0.004	0.06	0.1	0.1	0.2
01002p	ARSENIC, TOTAL (UG/L AS AS)	03/24/76-07/23/96	11	15.	13.364	18.	5.	22.255	4.717	5.2	8.	16.
01020p	BORON, DISSOLVED (UG/L AS B)	03/24/76-08/30/94	11	160.	136.364	190.	50.	2605.455	51.044	52.	70.	160.
01022	BORON, TOTAL (UG/L AS B)	03/24/76-07/23/96	11	190.	179.091	250.	110.	1389.091	37.271	114.	160.	200.
01027p	CADMIUM, TOTAL (UG/L AS CD)	03/24/76-07/23/96	11	2.	3.182	11.	0.	10.564	3.25	0.	1.	5.
01034p	CHROMIUM, TOTAL (UG/L AS CR)	03/24/76-07/23/96	11 ##	10.	9.091	20.	0.	49.091	7.006	0.	0.	10.
01042p	COPPER, TOTAL (UG/L AS CU)	03/24/76-07/23/96	11	9.	10.455	26.	3.	44.673	6.684	3.4	5.	15.
01045p	IRON, TOTAL (UG/L AS FE)	03/24/76-07/23/96	11	270.	1236.364	7700.	50.	5045345.455	2246.185	50.	80.	1700.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/24/76-07/23/96	11 ##	5.	38.636	250.	5.	5305.455	72.839	5.	5.	40.
01051p	LEAD, TOTAL (UG/L AS PB)	03/24/76-07/23/96	11	6.	18.091	76.	2.	499.691	22.354	2.	5.	22.
01055p	MANGANESE, TOTAL (UG/L AS MN)	03/24/76-07/23/96	11	30.	45.455	200.	5.	3162.273	56.234	5.	20.	40.
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	03/24/76-07/23/96	11 ##	5.	5.091	6.	5.	0.091	0.302	5.	5.	5.
01092p	ZINC, TOTAL (UG/L AS ZN)	03/24/76-07/23/96	11	30.	27.273	50.	10.	161.818	12.721	10.	20.	40.
01147p	SELENIUM, TOTAL (UG/L AS SE)	03/24/76-07/23/96	11 ##	0.5	1.409	9.	0.5	6.391	2.528	0.5	0.5	1.
31625p	FECAL COLIFORM, MF,M-FC, 0.7 UM	11/10/76-11/21/95	11	13.	101.364	900.	1.	70784.455	266.053	1.2	3.	61.
31625p	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	11/10/76-11/21/95	11	1.114	1.188	2.954	0.	0.675	0.822	0.06	0.477	1.785
31625p	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			15.424							
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	03/24/76-10/05/83	11	1.	1.273	3.	0.	1.618	1.272	0.	0.	3.
70300p	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/24/76-07/23/96	7	260.	215.714	284.	124.	5289.571	72.729	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	03/24/76-02/01/83	11	52.5	71.718	197.	44.3	2094.33	45.764	44.38	48.1	68.3
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	03/24/76-02/01/83	11	0.37	0.322	0.39	0.17	0.008	0.087	0.17	0.23	0.38
71887	NITROGEN, TOTAL, AS NO3 - MG/L	03/24/76-02/01/83	11	1.2	1.873	5.	0.8	1.858	1.363	0.8	0.9	2.4
71900p	MERCURY, TOTAL (UG/L AS HG)	03/24/76-07/23/96	11 ##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/11/78-08/30/94	3	29.	90.333	216.	26.	11846.333	108.841	**	**	**

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Annual Analysis for 1979 - Station TUZI0098

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/24/76-07/23/96	10	18.25	17.8	28.5	10.	43.344	6.584	10.	10.75	23.
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/24/76-06/25/96	10	79.	228.4	1130.	72.	116649.822	341.54	72.2	75.5	219.75
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/12/79-07/23/96	2	1.1	1.1	1.7	0.5	0.72	0.849	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/24/76-07/23/96	10	480.	421.5	520.	130.	17778.056	133.334	142.	332.5	512.5
00300p	OXYGEN, DISSOLVED MG/L	03/24/76-07/23/96	10	9.55	9.19	10.4	7.2	1.503	1.226	7.2	7.95	10.25
00340p	COD, .25N K2CR2O7 MG/L	03/24/76-07/23/96	1	11.	11.	11.	11.	0.	0.	**	**	**
00400p	PH (STANDARD UNITS)	03/24/76-07/23/96	9	8.2	8.139	8.5	7.6	0.071	0.267	7.6	7.95	8.3
00400p	CONVERTED PH (STANDARD UNITS)	03/24/76-07/23/96	9	8.2	8.056	8.5	7.6	0.079	0.281	7.6	7.95	8.3
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/24/76-07/23/96	9	0.006	0.009	0.025	0.003	0.	0.007	0.003	0.005	0.011
00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	03/24/76-04/02/91	10	230.	202.7	250.	57.	4386.233	66.229	63.3	157.5	250.
00440	BICARBONATE ION (MG/L AS HCO3)	03/24/76-11/17/88	8	285.	238.625	310.	69.	7775.125	88.177	**	**	**

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Annual Analysis for 1979 - Station TUZI0098

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00445	CARBONATE ION (MG/L AS CO3)	03/24/76-11/17/88	7	0.	0.	0.	0.	0.	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/24/79-07/23/96	1	28.	28.	28.	0.	0.	**	**	**	**
00600	NITROGEN, TOTAL (MG/L AS N)	03/24/76-02/01/83	10	0.26	0.291	0.5	0.16	0.013	0.114	0.198	0.373	0.494
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/24/76-07/23/96	10	0.225	0.228	0.4	0.11	0.01	0.098	0.111	0.135	0.39
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/24/76-07/23/96	10	0.04	0.063	0.2	0.01	0.004	0.061	0.011	0.02	0.194
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	03/24/76-07/23/96	10	0.025	0.034	0.08	0.01	0.001	0.024	0.01	0.018	0.079
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/24/76-10/05/83	6	1.25	2.083	4.6	0.2	3.518	1.876	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CaCO3)	03/24/76-03/10/83	10	215.	186.	230.	60.	3248.889	56.999	65.	155.	220.
00915p	CALCIUM, DISSOLVED (MG/L AS Ca)	03/24/76-07/23/96	10	47.	42.8	56.	15.	147.067	12.127	16.4	38.	49.5
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/24/76-07/23/96	10	22.	19.23	24.	5.5	42.151	6.492	5.93	15.2	23.25
00930p	SODIUM, DISSOLVED (MG/L AS Na)	03/24/76-07/23/96	10	22.	19.61	26.	5.1	43.943	6.629	5.79	15.	24.25
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	03/24/76-07/23/96	10	2.3	2.08	2.9	1.	0.333	0.577	1.03	1.6	2.4
00940p	CHLORIDE, TOTAL IN WATER MG/L	03/24/76-07/23/96	10	10.5	11.	18.	3.	21.556	4.643	3.3	7.5	15.25
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/24/76-07/23/96	10	11.5	10.5	13.	5.	6.944	2.635	5.2	9.25	12.25
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	03/24/76-07/23/96	10	0.2	0.19	0.2	0.1	0.001	0.032	0.11	0.2	0.2
01002p	ARSENIC, TOTAL (UG/L AS AS)	03/24/76-07/23/96	10	14.	13.	18.	3.	20.667	4.546	3.4	11.5	16.
01020p	BORON, DISSOLVED (UG/L AS B)	03/24/76-08/30/94	10	170.	151.	190.	40.	2676.667	51.737	43.	145.	175.
01022	BORON, TOTAL (UG/L AS B)	03/24/76-07/23/96	10	190.	167.	300.	50.	4778.889	69.13	54.	112.5	192.5
01027p	CADMIUM, TOTAL (UG/L AS CD)	03/24/76-07/23/96	9 ##	0.	1.333	7.	0.	5.5	2.345	0.	0.	2.
01034p	CHROMIUM, TOTAL (UG/L AS CR)	03/24/76-07/23/96	10 ##	0.	2.	10.	0.	17.778	4.216	0.	0.	2.5
01042p	COPPER, TOTAL (UG/L AS CU)	03/24/76-07/23/96	10	6.	6.	12.	2.	11.778	3.432	2.	2.75	8.25
01045p	IRON, TOTAL (UG/L AS FE)	03/24/76-07/23/96	10	150.	497.	2400.	30.	570290.	755.175	32.	72.5	822.5
01046p	IRON, DISSOLVED (UG/L AS FE)	03/24/76-07/23/96	10 ##	5.	11.5	70.	5.	422.5	20.555	5.	5.	63.5
01051p	LEAD, TOTAL (UG/L AS PB)	03/24/76-07/23/96	9	12.	31.778	97.	1.	1295.444	35.992	1.	3.5	63.5
01055p	MANGANESE, TOTAL (UG/L AS MN)	03/24/76-07/23/96	10 ##	5.	17.	60.	5.	362.222	19.032	5.	5.	25.
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	03/24/76-07/23/96	10	5.	5.1	8.	3.	3.211	1.792	3.	3.	7.
01092p	ZINC, TOTAL (UG/L AS ZN)	03/24/76-07/23/96	10	25.	32.	110.	10.	840.	28.983	10.	17.5	32.5
01147p	SELENIUM, TOTAL (UG/L AS SE)	03/24/76-07/23/96	10 ##	0.5	0.5	1.	0.	0.056	0.236	0.05	0.5	0.95
31625p	FECAL COLIFORM, MF,M-FC, 0.7 UM	11/10/76-11/21/95	9	12.	15.556	58.	1.	314.028	17.721	1.	3.5	22.
31625p	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	11/10/76-11/21/95	9	1.079	0.94	1.763	0.	0.285	0.534	0.	0.54	1.341
31625p	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			8.71							
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	03/24/76-10/05/83	10	1.5	2.1	7.	0.	4.544	2.132	0.	0.75	3.25
70300p	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L	03/24/76-07/23/96	3	263.	257.333	271.	238.	296.333	17.214	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	03/24/76-02/01/83	10	61.	93.89	250.	49.	5455.205	73.859	49.38	53.775	110.225
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	03/24/76-02/01/83	10	0.365	0.322	0.39	0.11	0.009	0.093	0.121	0.273	0.39
71887	NITROGEN, TOTAL, AS NO3 - MG/L	03/24/76-02/01/83	10	1.15	1.29	2.2	0.7	0.252	0.502	0.7	0.85	1.675
71900p	MERCURY, TOTAL (UG/L AS HG)	03/24/76-07/23/96	9 ##	0.05	0.044	0.05	0.	0.	0.017	0.	0.05	0.05
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/11/78-08/30/94	9	18.	25.889	74.	4.	554.111	23.54	4.	10.	40.5

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Annual Analysis for 1981 - Station TUZI0098

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/24/76-07/23/96	12	17.75	17.958	27.5	11.	23.112	4.807	11.3	14.625	21.75
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/10/78-07/23/96	1	17.5	17.5	17.5	17.5	0.	0.	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/24/76-06/25/96	12	84.5	93.	190.	77.	962.	31.016	77.	80.	87.5
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/24/76-07/23/96	11	500.	490.909	610.	260.	7134.091	84.464	306.	490.	525.
00300p	OXYGEN, DISSOLVED MG/L	03/24/76-07/23/96	12	9.35	9.3	10.8	7.8	0.965	0.983	7.89	8.425	10.025
00340p	COD, .25N K2CR2O7 MG/L	03/24/76-07/23/96	12	21.5	33.5	170.	0.	2017.909	44.921	2.7	9.5	36.5
00400p	PH (STANDARD UNITS)	03/24/76-07/23/96	11	8.2	8.018	8.3	7.2	0.118	0.343	7.28	7.8	8.2
00400p	CONVERTED PH (STANDARD UNITS)	03/24/76-07/23/96	11	8.2	7.851	8.3	7.2	0.148	0.385	7.28	7.8	8.2
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/24/76-07/23/96	11	0.006	0.014	0.063	0.005	0.	0.017	0.005	0.006	0.016
00403p	PH, LAB, STANDARD UNITS SU	01/21/81-07/23/96	12	8.05	8.033	8.3	7.6	0.035	0.187	7.66	8.	8.175
00403p	CONVERTED PH, LAB, STANDARD UNITS	01/21/81-07/23/96	12	8.047	7.991	8.3	7.6	0.037	0.193	7.66	8.	8.175
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/21/81-07/23/96	12	0.009	0.01	0.025	0.005	0.	0.005	0.005	0.007	0.01
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/24/79-07/23/96	12	10.	31.75	264.	0.	5416.932	73.6	0.6	3.75	17.75

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Annual Analysis for 1981 - Station TUZI0098

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00600	NITROGEN, TOTAL (MG/L AS N)	03/24/76-02/01/83	11	0.63	1.305	5.4	0.32	2.794	1.672	0.348	0.5	0.76	5.08
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/16/81-07/23/96	1	0.09	0.09	0.09	0.09	0.	0.	**	**	**	**
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/24/76-07/23/96	11	0.51	1.171	4.9	0.22	2.547	1.596	0.238	0.41	0.64	4.68
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/24/76-07/23/96	11	0.1	0.14	0.54	0.01	0.022	0.148	0.012	0.04	0.19	0.476
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	03/24/76-07/23/96	11	0.03	0.341	3.4	0.01	1.03	1.015	0.014	0.03	0.05	2.732
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/24/76-10/05/83	12	6.1	10.383	59.	0.6	262.387	16.198	0.6	0.8	12.	45.8
00900	HARDNESS, TOTAL (MG/L AS CaCO3)	03/24/76-03/10/83	11	220.	220.	230.	210.	60.	7.746	210.	210.	230.	230.
00915p	CALCIUM, DISSOLVED (MG/L AS Ca)	03/24/76-07/23/96	11	50.	48.727	52.	45.	6.218	2.494	45.	46.	51.	51.8
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/24/76-07/23/96	11	24.	23.636	24.	23.	0.255	0.505	23.	23.	24.	24.
00930p	SODIUM, DISSOLVED (MG/L AS Na)	03/24/76-07/23/96	3	24.	24.333	25.	24.	0.333	0.577	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	03/24/76-07/23/96	3	1.9	2.067	2.4	1.9	0.083	0.289	**	**	**	**
00940p	CHLORIDE, TOTAL IN WATER MG/L	03/24/76-07/23/96	3	13.	13.	15.	11.	4.	2.	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/24/76-07/23/96	12	7.5	6.4	10.	0.3	13.529	3.678	0.36	2.75	9.75	10.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	03/24/76-07/23/96	3	0.2	0.233	0.3	0.2	0.003	0.058	**	**	**	**
01020p	BORON, DISSOLVED (UG/L AS B)	03/24/76-08/30/94	3	150.	150.	160.	140.	100.	10.	**	**	**	**
01027p	CADMIUM, TOTAL (UG/L AS Cd)	03/24/76-07/23/96	12 ##	0.5	4.667	15.	0.5	42.242	6.499	0.5	0.5	13.	15.
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	01/21/81-07/23/96	11 ##	0.5	0.727	2.	0.5	0.218	0.467	0.5	0.5	1.	1.8
01042p	COPPER, TOTAL (UG/L AS CU)	03/24/76-07/23/96	12	50.	75.75	340.	0.5	10237.568	101.181	0.5	0.5	95.	298.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/24/76-07/23/96	3	11.	12.	20.	5.	57.	7.55	**	**	**	**
01049p	LEAD, DISSOLVED (UG/L AS PB)	01/21/81-07/23/96	11 ##	0.5	1.409	5.	0.5	2.391	1.546	0.5	0.5	3.	4.6
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	03/24/76-07/23/96	3	6.	6.667	8.	6.	1.333	1.155	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	01/21/81-07/23/96	11	7.	7.045	20.	1.5	32.573	5.707	1.5	1.5	10.	18.6
01147p	SELENIUM, TOTAL (UG/L AS SE)	03/24/76-07/23/96	12 ##	0.5	0.5	1.	0.	0.045	0.213	0.15	0.5	0.5	0.85
31625p	FECAL COLIFORM, MF,M-FC, 0.7 UM	11/10/76-11/21/95	10	3.5	8.05	25.	0.5	95.803	9.788	0.55	1.	20.25	24.6
31625p	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	11/10/76-11/21/95	10	0.54	0.54	1.398	-0.301	0.391	0.625	-0.271	0.	1.306	1.39
31625p	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			3.468								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/20/77-11/21/95	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/20/77-11/21/95	1 ##	-0.301	-0.301	-0.301	-0.301	0.	0.	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			0.5								
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	03/24/76-10/05/83	9	8.	7.556	14.	3.	16.528	4.065	3.	4.	11.5	14.
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/24/76-07/23/96	12	268.	262.917	309.	147.	1569.902	39.622	179.4	258.	281.5	303.9
70302	SOLIDS, DISSOLVED-TONS PER DAY	03/24/76-02/01/83	12	62.7	63.275	75.4	55.1	39.62	6.294	55.34	57.6	67.55	74.29
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	03/24/76-02/01/83	12	0.365	0.358	0.42	0.2	0.003	0.054	0.245	0.353	0.38	0.414
71887	NITROGEN, TOTAL, AS NO3 - MG/L	03/24/76-02/01/83	11	2.8	5.8	24.	1.4	55.546	7.453	1.52	2.2	3.4	22.6
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/11/78-08/30/94	11	27.	272.273	2760.	5.	680978.818	825.214	5.6	13.	36.	2218.8

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1982 - Station TUZI0098

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/24/76-07/23/96	12	16.	15.583	26.5	6.	53.492	7.314	6.45	7.5	21.125	26.2
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/10/78-07/23/96	12	18.	17.125	31.5	-0.5	104.597	10.227	5.6	2.25	25.75	31.35
00025	BAROMETRIC PRESSURE (MM OF HG)	10/27/82-07/23/96	3	678.	676.333	686.	665.	112.333	10.599	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/24/76-06/25/96	11	84.	203.636	1200.	73.	113109.055	336.317	73.6	77.	101.	1018.
00065	STAGE, STREAM (FEET)	10/27/82-06/25/96	3	0.4	0.853	1.86	0.3	0.763	0.873	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/24/76-07/23/96	12	493.5	441.917	720.	145.	26759.72	163.584	151.3	330.	510.	663.
00300p	OXYGEN, DISSOLVED MG/L	03/24/76-07/23/96	11	8.8	8.873	11.8	4.6	4.038	2.01	5.1	7.8	10.7	11.68
00340p	COD, .25N K2CR2O7 MG/L	03/24/76-07/23/96	12	12.	15.458	37.	5.	110.248	10.5	5.	5.125	22.75	34.3
00400p	PH (STANDARD UNITS)	03/24/76-07/23/96	11	8.2	8.1	8.5	7.4	0.092	0.303	7.5	8.	8.2	8.5
00400p	CONVERTED PH (STANDARD UNITS)	03/24/76-07/23/96	11	8.2	7.985	8.5	7.4	0.107	0.327	7.5	8.	8.2	8.5
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/24/76-07/23/96	11	0.006	0.01	0.04	0.003	0.	0.01	0.003	0.006	0.01	0.034
00403p	PH, LAB, STANDARD UNITS SU	01/21/81-07/23/96	12	8.	7.983	8.4	7.2	0.118	0.343	7.32	7.825	8.3	8.37
00403p	CONVERTED PH, LAB, STANDARD UNITS	01/21/81-07/23/96	12	8.	7.833	8.4	7.2	0.142	0.377	7.32	7.825	8.3	8.37
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/21/81-07/23/96	12	0.01	0.015	0.063	0.004	0.	0.016	0.004	0.005	0.015	0.052
00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	03/24/76-04/02/91	7	220.	202.571	300.	78.	5519.286	74.292	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/24/79-07/23/96	12	8.	27.75	115.	1.	1353.295	36.787	1.	4.	40.25	105.7

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Annual Analysis for 1982 - Station TUZI0098

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00600	NITROGEN, TOTAL (MG/L AS N)	03/24/76-02/01/83	5	0.75	0.812	1.1	0.6	0.037	0.194	**	**	**
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/24/76-07/23/96	12	0.5	0.731	2.4	0.2	0.348	0.59	0.23	0.415	0.95
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/24/76-07/23/96	12 ##	0.05	0.099	0.3	0.05	0.006	0.08	0.05	0.123	0.273
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	03/24/76-07/23/96	12	0.085	0.084	0.18	0.005	0.003	0.056	0.013	0.03	0.118
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/24/76-10/05/83	12	1.7	3.208	12.	0.4	11.908	3.451	0.55	0.925	5.575
00900	HARDNESS, TOTAL (MG/L AS CaCO3)	03/24/76-03/10/83	12	220.	188.5	230.	66.	3722.273	61.01	69.	150.	220.
00915p	CALCIUM, DISSOLVED (MG/L AS Ca)	03/24/76-07/23/96	12	48.5	42.667	51.	17.	159.152	12.616	17.6	35.75	50.75
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/24/76-07/23/96	12	23.	19.808	26.	5.7	52.55	7.249	6.09	14.25	24.75
00930p	SODIUM, DISSOLVED (MG/L AS Na)	03/24/76-07/23/96	4	17.	16.475	25.	6.9	78.969	8.886	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	03/24/76-07/23/96	4	2.	1.925	2.3	1.4	0.143	0.377	**	**	**
00940p	CHLORIDE, TOTAL IN WATER MG/L	03/24/76-07/23/96	6	9.	8.667	13.	3.	15.467	3.933	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/24/76-07/23/96	12	8.	7.75	10.	5.	3.659	1.913	5.	6.	9.75
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	03/24/76-07/23/96	4	0.2	0.163	0.2	0.05	0.006	0.075	**	**	**
01020p	BORON, DISSOLVED (UG/L AS B)	03/24/76-08/30/94	4	115.	107.5	170.	30.	4691.667	68.496	**	**	**
01022	BORON, TOTAL (UG/L AS B)	03/24/76-07/23/96	3	210.	223.333	390.	70.	25733.333	160.416	**	**	**
01027p	CADMIUM, TOTAL (UG/L AS Cd)	03/24/76-07/23/96	12 ##	5.	8.083	15.	0.5	40.22	6.342	0.5	2.	15.
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	01/21/81-07/23/96	9 ##	0.5	2.722	7.	0.5	7.319	2.705	0.5	0.5	7.
01042p	COPPER, TOTAL (UG/L AS CU)	03/24/76-07/23/96	9	20.	23.333	50.	5.	287.5	16.956	5.	7.5	37.5
01046p	IRON, DISSOLVED (UG/L AS FE)	03/24/76-07/23/96	4	155.5	158.125	320.	1.5	30836.396	175.603	**	**	**
01049p	LEAD, DISSOLVED (UG/L AS Pb)	01/21/81-07/23/96	11	1.	1.727	7.	0.5	3.718	1.928	0.5	0.5	6.2
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	03/24/76-07/23/96	4	8.	10.25	20.	5.	46.917	6.85	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	01/21/81-07/23/96	9	7.	12.833	43.	1.5	170.	13.038	1.5	4.	18.5
01147p	SELENIUM, TOTAL (UG/L AS SE)	03/24/76-07/23/96	9 ##	0.5	0.556	1.	0.5	0.028	0.167	0.5	0.5	1.
31625p	FECAL COLIFORM, MF,M-FC, 0.7 UM	11/10/76-11/21/95	12	9.	40.917	260.	3.	5657.174	75.214	3.	4.5	33.75
31625p	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	11/10/76-11/21/95	12	0.952	1.147	2.415	0.477	0.377	0.614	0.477	0.646	2.303
31625p	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			14.029							
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	03/24/76-10/05/83	11	3.	5.818	18.	2.	34.764	5.896	2.	2.	17.8
70300p	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L	03/24/76-07/23/96	12	260.5	235.333	291.	105.	4390.061	66.258	106.8	196.75	283.
70302	SOLIDS, DISSOLVED-TONS PER DAY	03/24/76-02/01/83	12	63.75	101.842	363.	50.5	8072.701	89.848	51.67	59.725	126.075
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	03/24/76-02/01/83	12	0.355	0.321	0.4	0.14	0.008	0.092	0.143	0.268	0.388
71887	NITROGEN, TOTAL, AS NO3 - MG/L	03/24/76-02/01/83	5	3.3	3.6	4.9	2.7	0.75	0.866	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/11/78-08/30/94	12	35.	59.083	223.	7.	4048.992	63.632	7.6	13.75	97.25

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Annual Analysis for 1983 - Station TUZI0098

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/24/76-07/23/96	10	18.25	17.85	27.	6.	63.003	7.937	6.4	10.75	25.5
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/10/78-07/23/96	10	20.75	23.2	37.	9.	102.9	10.144	9.05	15.5	33.625
00025	BAROMETRIC PRESSURE (MM OF HG)	10/27/82-07/23/96	9	676.	676.333	680.	674.	5.25	2.291	674.	674.	680.
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/24/76-06/25/96	10	127.	766.5	4480.	82.	1987940.944	1409.944	82.	82.	945.25
00065	STAGE, STREAM (FEET)	10/27/82-06/25/96	10	0.445	1.473	6.3	0.25	4.211	2.052	0.25	0.265	2.52
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/24/76-07/23/96	9	437.	389.222	516.	126.	23098.944	151.983	126.	267.5	499.5
00300p	OXYGEN, DISSOLVED MG/L	03/24/76-07/23/96	9	8.9	8.867	10.8	7.4	1.7	1.304	7.4	7.55	10.15
00340p	COD, .25N K2CR2O7 MG/L	03/24/76-07/23/96	9	15.	13.889	25.	5.	53.361	7.305	5.	5.	25.
00400p	PH (STANDARD UNITS)	03/24/76-07/23/96	9	8.1	7.956	8.2	6.9	0.183	0.428	6.9	7.85	8.2
00400p	CONVERTED PH (STANDARD UNITS)	03/24/76-07/23/96	9	8.1	7.66	8.2	6.9	0.281	0.53	6.9	7.85	8.2
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/24/76-07/23/96	9	0.008	0.022	0.126	0.006	0.002	0.039	0.006	0.006	0.015
00403p	PH, LAB, STANDARD UNITS SU	01/21/81-07/23/96	9	8.	8.056	8.3	7.7	0.043	0.207	7.7	7.9	8.25
00403p	CONVERTED PH, LAB, STANDARD UNITS	01/21/81-07/23/96	9	8.	8.011	8.3	7.7	0.045	0.212	7.7	7.9	8.25
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/21/81-07/23/96	9	0.01	0.01	0.02	0.005	0.	0.005	0.005	0.006	0.013
00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	03/24/76-04/02/91	9	201.	184.111	238.	53.	4567.611	67.584	53.	138.5	232.5
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/24/79-07/23/96	9	17.	24.556	82.	3.	741.778	27.236	3.	3.	41.5
00600	NITROGEN, TOTAL (MG/L AS N)	03/24/76-02/01/83	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/24/76-07/23/96	9	0.5	0.544	1.1	0.2	0.063	0.251	0.2	0.4	0.6
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/24/76-07/23/96	9 ##	0.05	0.111	0.3	0.05	0.009	0.096	0.05	0.05	0.2

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Annual Analysis for 1983 - Station TUZI0098

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	03/24/76-07/23/96	9	0.08	0.073	0.16	0.01	0.003	0.051	0.01	0.03	0.115	0.16
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/24/76-10/05/83	9	2.7	3.011	8.7	0.6	6.716	2.592	0.6	0.85	4.3	8.7
00900	HARDNESS, TOTAL (MG/L AS CaCO3)	03/24/76-03/10/83	2	135.	135.	190.	80.	6050.	77.782	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS Ca)	03/24/76-07/23/96	9	45.	41.111	53.	16.	180.611	13.439	16.	32.	49.5	53.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/24/76-07/23/96	9	19.	17.967	24.	4.5	54.36	7.373	4.5	12.1	24.	24.
00930p	SODIUM, DISSOLVED (MG/L AS Na)	03/24/76-07/23/96	3	24.	18.033	24.	6.1	106.803	10.335	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	03/24/76-07/23/96	3	2.1	1.833	2.2	1.2	0.303	0.551	**	**	**	**
00940p	CHLORIDE, TOTAL IN WATER MG/L	03/24/76-07/23/96	5	12.	10.4	13.	3.	17.3	4.159	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/24/76-07/23/96	9	9.	8.667	11.	5.	3.75	1.936	5.	7.5	10.5	11.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	03/24/76-07/23/96	3	0.2	0.167	0.2	0.1	0.003	0.058	**	**	**	**
01020p	BORON, DISSOLVED (UG/L AS B)	03/24/76-08/30/94	3	160.	123.333	170.	40.	5233.333	72.342	**	**	**	**
01022	BORON, TOTAL (UG/L AS B)	03/24/76-07/23/96	9	190.	172.222	260.	60.	4219.444	64.957	60.	120.	215.	260.
01027p	CADMIUM, TOTAL (UG/L AS Cd)	03/24/76-07/23/96	8 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	10/05/83-07/23/96	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01046p	IRON, DISSOLVED (UG/L AS Fe)	03/24/76-07/23/96	3	19.	20.667	30.	13.	74.333	8.622	**	**	**	**
01049p	LEAD, DISSOLVED (UG/L AS Pb)	01/21/81-07/23/96	9	1.	2.167	7.	0.5	5.313	2.305	0.5	0.5	3.5	7.
01056p	MANGANESE, DISSOLVED (UG/L AS Mn)	03/24/76-07/23/96	3	5.	6.	10.	3.	13.	3.606	**	**	**	**
31625p	FECAL COLIFORM, MF,M-FC, 0.7 UM	11/10/76-11/21/95	9	12.	32.	120.	1.	2274.75	47.694	1.	2.	67.	120.
31625p	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	11/10/76-11/21/95	9	1.079	0.989	2.079	0.	0.568	0.754	0.	0.301	1.711	2.079
31625p	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			9.742								
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	03/24/76-10/05/83	9	10.	11.222	26.	2.	57.194	7.563	2.	6.5	15.5	26.
70300p	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L	03/24/76-07/23/96	9	237.	212.667	273.	77.	4768.	69.051	77.	170.	255.5	273.
70302	SOLIDS, DISSOLVED-TONS PER DAY	03/24/76-02/01/83	1	89.1	89.1	89.1	89.1	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	03/24/76-02/01/83	1	0.34	0.34	0.34	0.34	0.	0.	**	**	**	**
71887	NITROGEN, TOTAL, AS NO3 - MG/L	03/24/76-02/01/83	1	3.5	3.5	3.5	3.5	0.	0.	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/11/78-08/30/94	9	22.	97.667	570.	5.	33126.	182.005	5.	9.	109.	570.

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Annual Analysis for 1986 - Station TUZI0098

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	10/22/86-06/25/96	3	87.	78.	88.	59.	271.	16.462	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/24/76-07/23/96	3	13.5	13.833	17.	11.	9.083	3.014	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/10/78-07/23/96	3	17.	15.833	17.	13.5	4.083	2.021	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	10/27/82-07/23/96	2	675.	675.	676.	674.	2.	1.414	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/24/76-06/25/96	1	99.	99.	99.	99.	0.	0.	**	**	**	**
00065	STAGE, STREAM (FEET)	10/27/82-06/25/96	3	0.14	0.14	0.15	0.13	0.	0.01	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/12/79-07/23/96	3	4.2	4.3	5.5	3.2	1.33	1.153	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/24/76-07/23/96	3	515.	516.	518.	515.	3.	1.732	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	03/24/76-07/23/96	3	10.5	10.233	11.4	8.8	1.743	1.32	**	**	**	**
00340p	COD, .25N K2CR2O7 MG/L	03/24/76-07/23/96	3##	5.	7.333	12.	5.	16.333	4.041	**	**	**	**
00400p	PH (STANDARD UNITS)	03/24/76-07/23/96	3	8.3	8.233	8.4	8.	0.043	0.208	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	03/24/76-07/23/96	3	8.3	8.199	8.4	8.	0.045	0.212	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/24/76-07/23/96	3	0.005	0.006	0.01	0.004	0.	0.003	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	01/21/81-07/23/96	3	8.	8.033	8.3	7.8	0.063	0.252	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	01/21/81-07/23/96	3	8.	7.988	8.3	7.8	0.066	0.258	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/21/81-07/23/96	3	0.01	0.01	0.016	0.005	0.	0.005	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	03/24/76-04/02/91	3	249.	249.333	256.	243.	42.333	6.506	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	03/24/76-11/17/88	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	03/24/76-11/17/88	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00452	CARBONATE, WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	10/22/86-07/23/96	3	0.	2.333	7.	0.	16.333	4.041	**	**	**	**
00453	BICARBONATE, WATER,DISS,INCR TIT, FIELD,AS HCO3,MG/L	10/22/86-07/23/96	3	308.	306.667	309.	303.	10.333	3.215	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/24/79-07/23/96	3	13.	15.333	23.	10.	46.333	6.807	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/16/81-07/23/96	3##	0.005	0.017	0.04	0.005	0.	0.02	**	**	**	**
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/24/76-07/23/96	3	0.4	0.367	0.4	0.3	0.003	0.058	**	**	**	**
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/24/76-07/23/96	3	0.2	0.2	0.3	0.1	0.01	0.1	**	**	**	**

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Annual Analysis for 1986 - Station TUZI0098

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	03/24/76-07/23/96	3	0.01	0.223	0.65	0.01	0.137	0.37	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	03/24/76-07/23/96	3	52.	53.	56.	51.	7.	2.646	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/24/76-07/23/96	3	25.	25.	25.	25.	0.	0.	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	03/24/76-07/23/96	3	27.	26.667	27.	26.	0.333	0.577	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	03/24/76-07/23/96	3	2.	1.967	2.1	1.8	0.023	0.153	**	**	**	**
00940p	CHLORIDE, TOTAL IN WATER MG/L	03/24/76-07/23/96	3	14.	13.667	14.	13.	0.333	0.577	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/24/76-07/23/96	3	10.	10.333	11.	10.	0.333	0.577	**	**	**	**
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	03/24/76-07/23/96	3	0.3	0.267	0.3	0.2	0.003	0.058	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/22/86-07/23/96	3	16.	16.333	18.	15.	2.333	1.528	**	**	**	**
01002p	ARSENIC, TOTAL (UG/L AS AS)	03/24/76-07/23/96	3	18.	17.667	18.	17.	0.333	0.577	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	10/22/86-07/23/96	3	170.	170.	170.	170.	0.	0.	**	**	**	**
01020p	BORON, DISSOLVED (UG/L AS B)	03/24/76-08/30/94	3	170.	180.	210.	160.	700.	26.458	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/24/76-07/23/96	3##	0.5	1.333	3.	0.5	2.083	1.443	**	**	**	**
01027p	CADMIUM, TOTAL (UG/L AS CD)	03/24/76-07/23/96	3##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	01/21/81-07/23/96	3	1.	0.833	1.	0.5	0.083	0.289	**	**	**	**
01034p	CHROMIUM, TOTAL (UG/L AS CR)	03/24/76-07/23/96	2##	4.75	4.75	9.	0.5	36.125	6.01	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	10/05/83-07/23/96	3	2.	2.	3.	1.	1.	1.	**	**	**	**
01042p	COPPER, TOTAL (UG/L AS CU)	03/24/76-07/23/96	3	9.	8.333	10.	6.	4.333	2.082	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	03/24/76-07/23/96	3	260.	276.667	310.	260.	833.333	28.868	**	**	**	**
01046p	IRON, DISSOLVED (UG/L AS FE)	03/24/76-07/23/96	3	7.	7.	11.	3.	16.	4.	**	**	**	**
01049p	LEAD, DISSOLVED (UG/L AS PB)	01/21/81-07/23/96	3##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01051p	LEAD, TOTAL (UG/L AS PB)	03/24/76-07/23/96	3	9.	13.	24.	6.	93.	9.644	**	**	**	**
01055p	MANGANESE, TOTAL (UG/L AS MN)	03/24/76-07/23/96	3	10.	13.333	20.	10.	33.333	5.774	**	**	**	**
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	03/24/76-07/23/96	3	3.	3.	4.	2.	1.	1.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	10/22/86-07/23/96	3##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	01/21/81-07/23/96	3	13.	11.667	17.	5.	37.333	6.11	**	**	**	**
01092p	ZINC, TOTAL (UG/L AS ZN)	03/24/76-07/23/96	3	30.	30.	40.	20.	100.	10.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	10/22/86-07/23/96	3##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01147p	SELENIUM, TOTAL (UG/L AS SE)	03/24/76-07/23/96	3##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
31625p	FECAL COLIFORM, MF,M-FC, 0.7 UM	11/10/76-11/21/95	3	3.	6.333	13.	3.	33.333	5.774	**	**	**	**
31625p	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	11/10/76-11/21/95	3	0.477	0.689	1.114	0.477	0.135	0.368	**	**	**	**
31625p	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			4.891								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/20/77-11/21/95	3	35.	59.333	110.	33.	1926.333	43.89	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/20/77-11/21/95	3	1.544	1.701	2.041	1.519	0.087	0.295	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			50.272								
39086	ALKALINITY, WATER, DISS, INCR TIT, FIELD, AS CaCO3, MG/L	10/22/86-07/23/96	3	253.	255.	260.	252.	19.	4.359	**	**	**	**
70300p	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L	03/24/76-07/23/96	3	270.	263.667	283.	238.	536.333	23.159	**	**	**	**
71900p	MERCURY, TOTAL (UG/L AS HG)	03/24/76-07/23/96	3	0.1	0.117	0.2	0.05	0.006	0.076	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/11/78-08/30/94	3	23.	23.	30.	16.	49.	7.	**	**	**	**

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Annual Analysis for 1987 - Station TUZI0098

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	10/22/86-06/25/96	12	57.	61.167	90.	43.	224.697	14.99	43.3	51.	76.5	87.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/24/76-07/23/96	12	17.75	16.417	23.	9.	23.174	4.814	9.3	11.75	20.75	22.55
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/10/78-07/23/96	11	22.5	20.636	34.5	7.5	71.005	8.426	8.	10.	25.	33.4
00025	BAROMETRIC PRESSURE (MM OF HG)	10/27/82-07/23/96	12	676.5	677.	683.	671.	12.364	3.516	671.6	675.	680.	682.4
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/24/76-06/25/96	4	85.	84.25	89.	78.	23.583	4.856	**	**	**	**
00065	STAGE, STREAM (FEET)	10/27/82-06/25/96	12	0.145	0.289	1.86	0.1	0.246	0.496	0.1	0.105	0.188	1.368
00076	TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/12/79-07/23/96	12	2.15	8.917	81.	0.6	517.734	22.754	0.66	1.125	4.35	58.41
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/24/76-07/23/96	12	490.	469.333	530.	185.	8403.515	91.671	270.5	476.25	513.75	528.5
00300p	OXYGEN, DISSOLVED MG/L	03/24/76-07/23/96	11	9.3	8.655	11.6	0.	9.621	3.102	1.48	8.5	10.2	11.48
00340p	COD, .25N K2CR2O7 MG/L	03/24/76-07/23/96	11	13.	39.455	293.	5.	7195.073	84.824	5.	5.	23.	242.4
00400p	PH (STANDARD UNITS)	03/24/76-07/23/96	12	8.3	8.318	8.6	8.08	0.026	0.16	8.086	8.243	8.385	8.6
00400p	CONVERTED PH (STANDARD UNITS)	03/24/76-07/23/96	12	8.3	8.293	8.6	8.08	0.026	0.162	8.086	8.242	8.385	8.6

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Annual Analysis for 1987 - Station TUZI0098

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/24/76-07/23/96	12	0.005	0.005	0.008	0.003	0.	0.002	0.003	0.004	0.006	0.008
00403p	PH, LAB, STANDARD UNITS SU	01/21/81-07/23/96	12	8.2	8.142	8.4	7.8	0.032	0.178	7.8	8.1	8.2	8.37
00403p	CONVERTED PH, LAB, STANDARD UNITS	01/21/81-07/23/96	12	8.2	8.104	8.4	7.8	0.033	0.182	7.8	8.1	8.2	8.37
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/21/81-07/23/96	12	0.006	0.008	0.016	0.004	0.	0.004	0.004	0.006	0.008	0.016
00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	03/24/76-04/02/91	12	256.5	241.75	274.	76.	2842.386	53.314	124.6	243.	265.75	272.5
00440	BICARBONATE ION (MG/L AS HCO3)	03/24/76-11/17/88	10	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00445	CARBONATE ION (MG/L AS CO3)	03/24/76-11/17/88	10	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00452	CARBONATE, WATER, DISS, INCR TIT, FIELD, AS CO3, MG/L	10/22/86-07/23/96	12	5.5	6.833	24.	0.	55.97	7.481	0.	0.	11.75	20.7
00453	BICARBONATE, WATER, DISS, INCR TIT, FIELD, AS HCO3, MG/L	10/22/86-07/23/96	12	303.5	284.917	330.	92.	3996.811	63.22	141.2	293.75	310.25	325.8
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/24/79-07/23/96	12	11.	18.333	126.	1.	1178.242	34.326	1.	2.5	13.5	93.3
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/16/81-07/23/96	12 ##	0.008	0.019	0.1	0.005	0.001	0.028	0.005	0.005	0.02	0.082
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/24/76-07/23/96	12	0.45	0.533	2.1	0.1	0.322	0.568	0.1	0.1	0.75	1.74
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/24/76-07/23/96	12 ##	0.05	0.154	0.6	0.05	0.027	0.166	0.05	0.05	0.2	0.51
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	03/24/76-07/23/96	12	0.02	0.025	0.1	0.005	0.001	0.025	0.005	0.01	0.03	0.079
00915p	CALCIUM, DISSOLVED (MG/L AS Ca)	03/24/76-07/23/96	12	52.	50.5	60.	21.	100.455	10.023	28.8	50.25	57.	59.4
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/24/76-07/23/96	12	24.	22.783	25.	7.4	23.982	4.897	12.08	23.25	25.	25.
00930p	SODIUM, DISSOLVED (MG/L AS Na)	03/24/76-07/23/96	12	25.	23.475	26.	5.7	31.78	5.637	11.19	24.25	25.75	26.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	03/24/76-07/23/96	12	2.1	2.083	3.	1.3	0.151	0.388	1.45	1.925	2.2	2.79
00940p	CHLORIDE, TOTAL IN WATER MG/L	03/24/76-07/23/96	12	12.5	12.167	15.	4.	8.515	2.918	6.1	11.25	14.	15.
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/24/76-07/23/96	12	9.	9.167	10.	7.	0.879	0.937	7.3	9.	10.	10.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	03/24/76-07/23/96	12	0.25	0.233	0.3	0.1	0.006	0.078	0.1	0.2	0.3	0.3
01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/22/86-07/23/96	12	17.	16.333	21.	4.	18.606	4.313	7.	16.	18.75	20.7
01002p	ARSENIC, TOTAL (UG/L AS AS)	03/24/76-07/23/96	12	18.	17.167	22.	5.	17.242	4.152	8.3	16.5	18.75	21.4
01005	BARIUM, DISSOLVED (UG/L AS Ba)	10/22/86-07/23/96	12	170.	162.583	180.	41.	1507.356	38.825	76.7	170.	180.	180.
01020p	BORON, DISSOLVED (UG/L AS B)	03/24/76-08/30/94	12	170.	144.583	190.	5.	3624.811	60.206	12.5	160.	170.	187.
01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/24/76-07/23/96	12 ##	0.5	2.083	18.	0.5	25.174	5.017	0.5	0.5	1.	12.9
01027p	CADMIUM, TOTAL (UG/L AS CD)	03/24/76-07/23/96	12 ##	0.5	0.625	1.	0.5	0.051	0.226	0.5	0.5	0.875	1.
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	01/21/81-07/23/96	12 ##	1.25	2.167	7.	0.5	4.379	2.093	0.5	0.5	3.75	6.1
01034p	CHROMIUM, TOTAL (UG/L AS CR)	03/24/76-07/23/96	11	3.	3.818	20.	0.5	31.264	5.591	0.5	0.5	4.	17.
01040	COPPER, DISSOLVED (UG/L AS CU)	10/05/83-07/23/96	12	3.	4.708	21.	0.5	33.43	5.782	0.5	0.875	5.	17.7
01042p	COPPER, TOTAL (UG/L AS CU)	03/24/76-07/23/96	12	4.	5.583	17.	2.	18.811	4.337	2.3	3.	6.5	15.2
01045p	IRON, TOTAL (UG/L AS FE)	03/24/76-07/23/96	12	240.	481.667	3600.	40.	973087.879	986.452	46.	120.	275.	2625.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/24/76-07/23/96	12	13.	50.5	300.	5.	7508.818	86.653	5.3	9.25	70.	246.
01049p	LEAD, DISSOLVED (UG/L AS PB)	01/21/81-07/23/96	12 ##	2.5	3.708	10.	2.5	5.93	2.435	2.5	2.5	4.375	9.1
01051p	LEAD, TOTAL (UG/L AS PB)	03/24/76-07/23/96	12 ##	2.5	9.333	63.	2.5	298.788	17.285	2.5	2.5	8.25	48.3
01055p	MANGANESE, TOTAL (UG/L AS MN)	03/24/76-07/23/96	12 ##	5.	17.083	90.	5.	633.902	25.177	5.	5.	17.5	75.
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	03/24/76-07/23/96	12	4.	6.417	31.	2.	62.265	7.891	2.3	3.	6.	23.8
01075	SILVER, DISSOLVED (UG/L AS AG)	10/22/86-07/23/96	12 ##	0.5	0.583	1.	0.5	0.038	0.195	0.5	0.5	0.5	1.
01090	ZINC, DISSOLVED (UG/L AS ZN)	01/21/81-07/23/96	12	6.5	28.833	270.	1.5	5783.924	76.052	1.5	4.25	12.5	192.9
01092p	ZINC, TOTAL (UG/L AS ZN)	03/24/76-07/23/96	12 ##	5.	13.75	50.	5.	200.568	14.162	5.	5.	20.	44.
01145	SELENIUM, DISSOLVED (UG/L AS SE)	10/22/86-07/23/96	12 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
01147p	SELENIUM, TOTAL (UG/L AS SE)	03/24/76-07/23/96	12 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
31625p	FECAL COLIFORM, MF, M-FC, 0.7 UM	11/10/76-11/21/95	12	14.5	28.	75.	2.	813.273	28.518	2.3	4.25	61.75	73.5
31625p	LOG FECAL COLIFORM, MF, M-FC, 0.7 UM	11/10/76-11/21/95	12	1.155	1.165	1.875	0.301	0.32	0.566	0.354	0.626	1.78	1.866
31625p	GM FECAL COLIFORM, MF, M-FC, 0.7 UM	GEOMETRIC MEAN =			14.625								
31673	FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	06/20/77-11/21/95	12	172.	241.167	846.	24.	51371.788	226.653	38.1	84.25	312.5	730.2
31673	LOG FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	06/20/77-11/21/95	12	2.233	2.22	2.927	1.38	0.169	0.411	1.522	1.925	2.493	2.848
31673	GM FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	GEOMETRIC MEAN =			165.882								
39086	ALKALINITY, WATER, DISS, INCR TIT, FIELD, AS CaCO3, MG/L	10/22/86-07/23/96	12	258.5	244.917	274.	76.	2927.902	54.11	124.9	251.25	267.75	274.
70300p	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L	03/24/76-07/23/96	12	272.	266.583	332.	111.	2733.174	52.28	156.9	268.25	286.	320.
71900p	MERCURY, TOTAL (UG/L AS HG)	03/24/76-07/23/96	12 ##	0.05	0.054	0.1	0.05	0.	0.014	0.05	0.05	0.05	0.085
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/11/78-08/30/94	12	26.	38.167	168.	13.	1756.515	41.911	13.9	19.5	35.25	131.4

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1988 - Station TUZI0098

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	10/22/86-06/25/96	12	59.5	61.333	78.	57.	34.606	5.883	57.3	58.	61.	74.7
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/24/76-07/23/96	12	16.5	16.25	22.	8.	21.295	4.615	8.3	13.375	20.	21.85
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/10/78-07/23/96	12	21.	21.125	33.5	13.	39.915	6.318	13.3	15.75	25.625	32.15
00025	BAROMETRIC PRESSURE (MM OF HG)	10/27/82-07/23/96	12	675.5	676.	686.	666.	29.636	5.444	667.2	672.5	679.75	684.8
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/24/76-06/25/96	10	86.	93.5	163.	79.	627.833	25.057	79.	82.	90.75	156.6
00065	STAGE, STREAM (FEET)	10/27/82-06/25/96	12	0.11	0.21	1.	0.07	0.076	0.275	0.073	0.08	0.145	0.85
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/12/79-07/23/96	12	6.2	59.108	550.	0.6	24419.243	156.267	0.66	1.15	24.75	409.6
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/24/76-07/23/96	12	489.	460.167	525.	268.	6193.788	78.701	295.9	412.5	510.	521.1
00300p	OXYGEN, DISSOLVED MG/L	03/24/76-07/23/96	12	9.2	8.417	10.9	0.	8.18	2.86	2.13	8.15	9.975	10.75
00340p	COD, .25N K2CR2O7 MG/L	03/24/76-07/23/96	11	16.	35.727	140.	5.	1934.418	43.982	5.	11.	44.	132.
00400p	PH (STANDARD UNITS)	03/24/76-07/23/96	12	8.16	8.197	8.5	7.96	0.027	0.165	7.993	8.092	8.272	8.5
00400p	CONVERTED PH (STANDARD UNITS)	03/24/76-07/23/96	12	8.16	8.171	8.5	7.96	0.028	0.167	7.993	8.092	8.272	8.5
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/24/76-07/23/96	12	0.007	0.007	0.011	0.003	0.	0.002	0.003	0.005	0.008	0.01
00403p	PH, LAB, STANDARD UNITS SU	01/21/81-07/23/96	12	8.2	8.192	8.5	7.9	0.021	0.144	7.96	8.1	8.275	8.44
00403p	CONVERTED PH, LAB, STANDARD UNITS	01/21/81-07/23/96	12	8.2	8.17	8.5	7.9	0.021	0.146	7.96	8.1	8.275	8.44
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/21/81-07/23/96	12	0.006	0.007	0.013	0.003	0.	0.002	0.004	0.005	0.008	0.011
00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	03/24/76-04/02/91	12	214.5	163.	269.	0.	12669.091	112.557	0.	23.5	255.75	266.9
00440	BICARBONATE ION (MG/L AS HCO3)	03/24/76-11/17/88	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00445	CARBONATE ION (MG/L AS CO3)	03/24/76-11/17/88	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	10/22/86-07/23/96	12	0.	2.167	10.	0.	15.606	3.95	0.	0.	6.	9.4
00453	BICARBONATE,WATER,DISS,INCR TIT, FIELD,AS HCO3,MG/L	10/22/86-07/23/96	12	306.5	277.917	333.	120.	4917.72	70.126	133.8	238.25	322.25	331.2
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/24/79-07/23/96	12	18.5	55.708	359.	0.5	10565.703	102.79	0.5	1.875	50.	292.1
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/16/81-07/23/96	12 ##	0.013	0.019	0.08	0.005	0.	0.022	0.005	0.005	0.028	0.065
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/24/76-07/23/96	12	0.25	0.45	1.8	0.1	0.265	0.514	0.1	0.1	0.55	1.59
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/24/76-07/23/96	12	0.2	0.154	0.3	0.05	0.01	0.099	0.05	0.05	0.2	0.3
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	03/24/76-07/23/96	12	0.025	0.16	1.6	0.005	0.206	0.454	0.007	0.013	0.048	1.147
00915p	CALCIUM, DISSOLVED (MG/L AS Ca)	03/24/76-07/23/96	12	51.	49.25	58.	31.	56.932	7.545	34.	44.75	54.5	57.4
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/24/76-07/23/96	12	25.	21.583	26.	12.	25.902	5.089	12.6	16.5	25.	25.7
00930p	SODIUM, DISSOLVED (MG/L AS Na)	03/24/76-07/23/96	12	25.	22.417	28.	10.	42.629	6.529	10.3	17.	26.75	28.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	03/24/76-07/23/96	12	2.	1.983	2.5	1.2	0.165	0.406	1.23	1.825	2.275	2.5
00940p	CHLORIDE,TOTAL IN WATER MG/L	03/24/76-07/23/96	12	12.	11.	13.	6.	6.364	2.523	6.3	8.75	13.	13.
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/24/76-07/23/96	12	9.	9.5	14.	7.	3.364	1.834	7.3	9.	9.75	13.4
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	03/24/76-07/23/96	12	0.2	0.2	0.3	0.1	0.004	0.06	0.1	0.2	0.2	0.3
01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/22/86-07/23/96	12	17.	15.167	19.	5.	15.97	3.996	6.8	12.75	17.75	18.7
01002p	ARSENIC, TOTAL (UG/L AS AS)	03/24/76-07/23/96	12	17.	15.25	19.	6.	19.477	4.413	6.6	12.25	18.	19.
01005	BARIUM, DISSOLVED (UG/L AS BA)	10/22/86-07/23/96	12	170.	138.417	180.	26.	3312.992	57.559	32.9	84.5	180.	180.
01020p	BORON, DISSOLVED (UG/L AS B)	03/24/76-08/30/94	12	160.	142.5	170.	60.	1438.636	37.929	69.	110.	170.	170.
01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/24/76-07/23/96	12 ##	0.5	0.667	2.	0.5	0.197	0.444	0.5	0.5	0.5	1.7
01027p	CADMIUM, TOTAL (UG/L AS CD)	03/24/76-07/23/96	11 ##	0.5	0.955	3.	0.5	0.673	0.82	0.5	0.5	1.	2.8
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	01/21/81-07/23/96	12	2.	2.208	5.	0.5	1.248	1.117	0.65	2.	2.75	4.4
01034p	CHROMIUM, TOTAL (UG/L AS CR)	03/24/76-07/23/96	11	3.	5.455	28.	2.	57.073	7.555	2.	2.	5.	23.4
01040	COPPER, DISSOLVED (UG/L AS CU)	10/05/83-07/23/96	12	2.	2.25	7.	0.5	3.614	1.901	0.5	1.	2.	6.4
01042p	COPPER, TOTAL (UG/L AS CU)	03/24/76-07/23/96	11	5.	14.091	100.	2.	823.491	28.697	2.	3.	11.	82.2
01045p	IRON, TOTAL (UG/L AS FE)	03/24/76-07/23/96	11	360.	2549.091	20000.	90.	34267609.091	5853.854	90.	180.	2400.	16500.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/24/76-07/23/96	12	15.5	41.333	210.	5.	3527.152	59.39	5.3	8.25	65.75	171.6
01049p	LEAD, DISSOLVED (UG/L AS PB)	01/21/81-07/23/96	12 ##	2.5	2.5	2.5	2.5	0.	0.	2.5	2.5	2.5	2.5
01051p	LEAD, TOTAL (UG/L AS PB)	03/24/76-07/23/96	11 ##	2.5	4.818	17.	2.5	21.964	4.687	2.5	2.5	6.	15.6
01055p	MANGANESE, TOTAL (UG/L AS MN)	03/24/76-07/23/96	11	20.	91.364	720.	5.	44360.455	210.619	6.	10.	50.	598.
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	03/24/76-07/23/96	12	5.5	5.5	12.	2.	6.091	2.468	2.6	4.	6.	10.5
01075	SILVER, DISSOLVED (UG/L AS AG)	10/22/86-07/23/96	12 ##	0.5	1.	5.	0.5	1.773	1.331	0.5	0.5	0.5	4.1
01090	ZINC, DISSOLVED (UG/L AS ZN)	01/21/81-07/23/96	12	6.5	6.25	13.	1.5	11.795	3.434	1.5	3.25	8.5	12.1
01092p	ZINC, TOTAL (UG/L AS ZN)	03/24/76-07/23/96	11	10.	19.545	120.	5.	1142.273	33.798	5.	5.	20.	100.
01145	SELENIUM, DISSOLVED (UG/L AS SE)	10/22/86-07/23/96	12 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
01147p	SELENIUM, TOTAL (UG/L AS SE)	03/24/76-07/23/96	12 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
31625p	FECAL COLIFORM, MF,M-FC, 0.7 UM	11/10/76-11/21/95	12	12.	179.	1733.	3.	241848.	491.78	3.3	5.	106.25	1256.3
31625p	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	11/10/76-11/21/95	12	1.038	1.348	3.239	0.477	0.709	0.842	0.515	0.699	2.02	2.915
31625p	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			22.26								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/20/77-11/21/95	12	152.	673.833	6200.	10.	3042419.97	1744.253	25.3	79.	352.5	4454.3
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/20/77-11/21/95	12	2.181	2.23	3.792	1.	0.422	0.65	1.236	1.887	2.543	3.429

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1988 - Station TUZI0098

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =		169.884								
39036	ALKALINITY,FILTERED SAMPLE AS CaCO3 MG/L	10/19/88-06/25/96	3	264.	263.333	268.	258.	25.333	5.033	**	**	**
39086	ALKALINITY, WATER, DISS, INCR TIT, FIELD, AS CaCO3, MG/L	10/22/86-07/23/96	12	261.	231.375	273.	98.5	3500.869	59.168	109.75	197.25	266.5
70300p	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L	03/24/76-07/23/96	12	276.5	263.583	314.	181.	1730.629	41.601	189.4	225.75	295.25
71900p	MERCURY, TOTAL (UG/L AS HG)	03/24/76-07/23/96	11 ##	0.05	0.086	0.4	0.05	0.011	0.105	0.05	0.05	0.05
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/11/78-08/30/94	12	26.5	134.75	1114.	3.	97972.932	313.006	5.7	17.25	101.5

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1989 - Station TUZI0098

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	10/22/86-06/25/96	12	55.5	56.	58.	54.	1.818	1.348	54.3	55.	57.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/24/76-07/23/96	12	18.	18.458	28.	10.	30.794	5.549	10.3	14.5	23.125
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/10/78-07/23/96	12	26.75	26.708	41.	15.5	76.475	8.745	15.8	17.25	34.625
00025	BAROMETRIC PRESSURE (MM OF HG)	10/27/82-07/23/96	12	676.5	675.833	681.	670.	13.061	3.614	670.6	672.25	679.5
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/24/76-06/25/96	12	80.	81.25	87.	77.	12.023	3.467	77.	79.	84.
00065	STAGE, STREAM (FEET)	10/27/82-06/25/96	12	0.085	0.092	0.13	0.06	0.001	0.026	0.06	0.07	0.12
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/12/79-07/23/96	12	4.35	8.65	44.	1.2	135.977	11.661	1.5	3.2	10.05
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/24/76-07/23/96	12	505.5	505.917	515.	493.	41.72	6.459	494.5	502.25	511.25
00300p	OXYGEN, DISSOLVED MG/L	03/24/76-07/23/96	12	9.3	9.442	11.5	7.9	1.321	1.149	7.93	8.525	10.3
00340p	COD, .25N K2CR2O7 MG/L	03/24/76-07/23/96	12	12.5	18.	53.	5.	242.727	15.58	5.	6.5	27.
00400p	PH (STANDARD UNITS)	03/24/76-07/23/96	12	8.325	8.35	8.5	8.2	0.009	0.093	8.215	8.3	8.4
00400p	CONVERTED PH (STANDARD UNITS)	03/24/76-07/23/96	12	8.324	8.341	8.5	8.2	0.009	0.093	8.215	8.3	8.4
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/24/76-07/23/96	12	0.005	0.005	0.006	0.003	0.	0.001	0.003	0.004	0.005
00403p	PH, LAB, STANDARD UNITS SU	01/21/81-07/23/96	12	8.2	8.142	8.2	8.	0.006	0.079	8.	8.1	8.2
00403p	CONVERTED PH, LAB, STANDARD UNITS	01/21/81-07/23/96	12	8.2	8.135	8.2	8.	0.006	0.08	8.	8.1	8.2
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/21/81-07/23/96	12	0.006	0.007	0.01	0.006	0.	0.001	0.006	0.006	0.008
00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	03/24/76-04/02/91	12	0.	0.	0.	0.	0.	0.	0.	0.	0.
00452	CARBONATE, WATER, DISS, INCR TIT, FIELD, AS CO3, MG/L	10/22/86-07/23/96	12	6.	7.833	22.	0.	70.333	8.386	0.	0.	14.
00453	BICARBONATE, WATER, DISS, INCR TIT, FIELD, AS HCO3, MG/L	10/22/86-07/23/96	12	307.5	303.	328.	276.	389.818	19.744	276.	282.25	320.75
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/24/79-07/23/96	12	17.	23.583	93.	0.5	660.038	25.691	0.5	8.5	29.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/16/81-07/23/96	12	0.01	0.015	0.03	0.005	0.	0.008	0.007	0.01	0.02
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/24/76-07/23/96	12	0.25	0.333	1.3	0.1	0.102	0.32	0.1	0.2	0.375
00630p	NITRITE PLUS NITRATE, TOTAL I DET. (MG/L AS N)	03/24/76-07/23/96	12 ##	0.075	0.117	0.3	0.05	0.007	0.086	0.05	0.05	0.2
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	03/24/76-07/23/96	12	0.025	0.038	0.2	0.005	0.003	0.053	0.005	0.009	0.04
00915p	CALCIUM, DISSOLVED (MG/L AS Ca)	03/24/76-07/23/96	12	51.5	51.917	57.	47.	8.629	2.937	47.3	50.25	53.75
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/24/76-07/23/96	12	24.	24.5	26.	24.	0.455	0.674	24.	24.	25.
00930p	SODIUM, DISSOLVED (MG/L AS Na)	03/24/76-07/23/96	12	26.	25.417	27.	23.	1.538	1.24	23.3	24.25	26.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	03/24/76-07/23/96	12	2.05	2.05	2.2	1.9	0.01	0.1	1.9	2.	2.1
00940p	CHLORIDE, TOTAL IN WATER MG/L	03/24/76-07/23/96	12	12.	12.417	13.	12.	0.265	0.515	12.	12.	13.
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/24/76-07/23/96	12	9.	8.75	10.	8.	0.386	0.622	8.	8.	9.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	03/24/76-07/23/96	12	0.2	0.225	0.3	0.2	0.002	0.045	0.2	0.2	0.275
01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/22/86-07/23/96	12	17.	15.25	18.	8.	16.205	4.025	8.3	10.75	18.
01002p	ARSENIC, TOTAL (UG/L AS AS)	03/24/76-07/23/96	12	17.	16.167	19.	8.	8.515	2.918	9.8	15.25	18.
01005	BARIUM, DISSOLVED (UG/L AS Ba)	10/22/86-07/23/96	12	180.	176.667	190.	170.	42.424	6.513	170.	170.	180.
01020p	BORON, DISSOLVED (UG/L AS B)	03/24/76-08/30/94	12	165.	157.5	180.	60.	1020.455	31.945	87.	160.	170.
01025	CADMIUM, DISSOLVED (UG/L AS Cd)	03/24/76-07/23/96	12 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5
01027p	CADMIUM, TOTAL (UG/L AS Cd)	03/24/76-07/23/96	12 ##	0.5	0.583	1.	0.5	0.038	0.195	0.5	0.5	0.5
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	01/21/81-07/23/96	12	2.	2.042	3.	0.5	0.384	0.62	0.95	2.	3.
01034p	CHROMIUM, TOTAL (UG/L AS CR)	03/24/76-07/23/96	12	2.5	2.75	4.	2.	0.75	0.866	2.	2.	3.75
01040	COPPER, DISSOLVED (UG/L AS CU)	10/05/83-07/23/96	12	1.	1.417	3.	1.	0.447	0.669	1.	1.	2.
01042p	COPPER, TOTAL (UG/L AS CU)	03/24/76-07/23/96	12	3.5	4.	14.	1.	12.364	3.516	1.	2.	4.75
01045p	IRON, TOTAL (UG/L AS FE)	03/24/76-07/23/96	12	275.	419.083	1900.	60.	236735.538	486.555	81.	212.25	472.5
01046p	IRON, DISSOLVED (UG/L AS FE)	03/24/76-07/23/96	12	6.	5.083	8.	1.5	4.765	2.183	1.5	3.25	6.
01049p	LEAD, DISSOLVED (UG/L AS Pb)	01/21/81-07/23/96	12 ##	1.	1.333	2.5	0.5	0.788	0.888	0.5	0.5	2.5
01051p	LEAD, TOTAL (UG/L AS Pb)	03/24/76-07/23/96	12	2.25	2.417	5.	1.	1.265	1.125	1.	2.	2.5

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Annual Analysis for 1989 - Station TUZI0098

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01055p	MANGANESE, TOTAL (UG/L AS MN)	03/24/76-07/23/96	12	20.	25.833	90.	5.	494.697	22.242	5.	20.	27.5	75.
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	03/24/76-07/23/96	12	5.	6.	17.	3.	16.364	4.045	3.	4.	5.75	15.2
01075	SILVER, DISSOLVED (UG/L AS AG)	10/22/86-07/23/96	12 ##	0.5	1.25	7.	0.5	3.477	1.865	0.5	0.5	1.	5.5
01090	ZINC, DISSOLVED (UG/L AS ZN)	01/21/81-07/23/96	12	5.5	5.542	9.	1.5	5.339	2.311	1.95	4.	7.75	8.7
01092p	ZINC, TOTAL (UG/L AS ZN)	03/24/76-07/23/96	12 ##	5.	17.5	110.	5.	911.364	30.189	5.	5.	17.5	86.
01145	SELENIUM, DISSOLVED (UG/L AS SE)	10/22/86-07/23/96	12 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
01147p	SELENIUM, TOTAL (UG/L AS SE)	03/24/76-07/23/96	12 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
31625p	FECAL COLIFORM, MF,M-FC, 0.7 UM	11/10/76-11/21/95	12	6.	19.792	150.	0.5	1714.794	41.41	1.25	4.25	16.	111.
31625p	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	11/10/76-11/21/95	12	0.778	0.875	2.176	-0.301	0.338	0.581	-0.068	0.626	1.191	1.914
31625p	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			7.496								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/20/77-11/21/95	11	316.	383.727	1180.	22.	134891.418	367.276	31.2	90.	625.	1106.
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/20/77-11/21/95	11	2.5	2.346	3.072	1.342	0.285	0.533	1.44	1.954	2.796	3.039
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			221.623								
39036	ALKALINITY, FILTERED SAMPLE AS CaCO3 MG/L	10/19/88-06/25/96	12	257.5	256.833	266.	243.	49.242	7.017	243.6	254.25	262.75	265.1
39086	ALKALINITY, WATER, DISS, INCR TIT, FIELD, AS CaCO3, MG/L	10/22/86-07/23/96	12	263.	261.417	272.	248.	52.265	7.229	248.6	256.5	266.	271.1
70300p	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L	03/24/76-07/23/96	12	265.	264.417	295.	229.	460.811	21.466	232.3	243.5	285.75	293.5
71900p	MERCURY, TOTAL (UG/L AS HG)	03/24/76-07/23/96	11 ##	0.05	0.059	0.1	0.05	0.	0.02	0.05	0.05	0.05	0.1
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/11/78-08/30/94	12	30.5	40.25	172.	12.	1857.477	43.098	12.3	19.25	39.	136.3

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Annual Analysis for 1990 - Station TUZI0098

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	10/22/86-06/25/96	12	55.	55.083	61.	53.	4.083	2.021	53.3	54.	55.	59.5
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/24/76-07/23/96	12	19.	18.417	27.	11.	32.856	5.732	11.3	12.125	22.75	26.7
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/10/78-07/23/96	12	26.75	23.167	39.	6.	141.333	11.888	6.75	10.125	34.75	38.25
00025	BAROMETRIC PRESSURE (MM OF HG)	10/27/82-07/23/96	12	676.	676.167	682.	666.	15.97	3.996	668.4	675.	678.	681.7
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/24/76-06/25/96	12	81.5	88.167	144.	73.	400.879	20.022	74.5	79.	83.75	134.4
00065	STAGE, STREAM (FEET)	10/27/82-06/25/96	12	0.125	0.161	0.48	0.07	0.016	0.125	0.073	0.08	0.168	0.438
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/12/79-07/23/96	12	14.	17.358	55.	1.5	276.65	16.633	1.95	4.45	20.	52.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/24/76-07/23/96	12	505.	478.917	517.	332.	3214.265	56.694	352.1	469.25	506.75	516.1
00300p	OXYGEN, DISSOLVED MG/L	03/24/76-07/23/96	12	9.5	9.442	10.9	7.2	1.348	1.161	7.44	8.675	10.6	10.87
00340p	COD, .25N K2CR2O7 MG/L	03/24/76-07/23/96	12	13.	12.333	22.	5.	29.152	5.399	5.	6.25	16.	20.5
00400p	PH (STANDARD UNITS)	03/24/76-07/23/96	12	8.2	8.237	8.6	8.05	0.023	0.151	8.065	8.113	8.3	8.54
00400p	CONVERTED PH (STANDARD UNITS)	03/24/76-07/23/96	12	8.2	8.216	8.6	8.05	0.023	0.153	8.065	8.112	8.3	8.54
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/24/76-07/23/96	12	0.006	0.006	0.009	0.003	0.	0.002	0.003	0.005	0.008	0.009
00403p	PH, LAB, STANDARD UNITS SU	01/21/81-07/23/96	12	8.1	8.167	8.5	8.	0.017	0.13	8.03	8.1	8.2	8.44
00403p	CONVERTED PH, LAB, STANDARD UNITS	01/21/81-07/23/96	12	8.1	8.151	8.5	8.	0.017	0.131	8.03	8.1	8.2	8.44
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/21/81-07/23/96	12	0.008	0.007	0.01	0.003	0.	0.002	0.004	0.006	0.008	0.009
00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	03/24/76-04/02/91	10	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	10/22/86-07/23/96	12	0.	3.583	16.	0.	31.902	5.648	0.	0.	8.	14.5
00453	BICARBONATE, WATER,DISS,INCR TIT, FIELD,AS HCO3,MG/L	10/22/86-07/23/96	12	312.5	297.083	337.	185.	2116.083	46.001	197.6	288.25	327.25	335.8
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/24/79-07/23/96	12	32.5	34.625	86.	0.5	781.506	27.955	0.65	9.5	50.25	84.2
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/16/81-07/23/96	12	0.01	0.02	0.08	0.005	0.	0.021	0.005	0.006	0.028	0.065
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/24/76-07/23/96	12 ##	0.2	0.225	0.4	0.1	0.018	0.136	0.1	0.1	0.375	0.4
00630p	NITRITE PLUS NITRATE, TOTAL I DET. (MG/L AS N)	03/24/76-07/23/96	12	0.2	0.167	0.3	0.05	0.009	0.094	0.05	0.05	0.2	0.3
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	03/24/76-07/23/96	12	0.03	0.034	0.07	0.02	0.	0.017	0.02	0.02	0.048	0.067
00915p	CALCIUM, DISSOLVED (MG/L AS Ca)	03/24/76-07/23/96	12	51.	49.917	56.	36.	27.538	5.248	38.7	48.5	53.	55.4
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/24/76-07/23/96	12	23.	22.667	25.	15.	8.424	2.902	16.2	23.	24.75	25.
00930p	SODIUM, DISSOLVED (MG/L AS Na)	03/24/76-07/23/96	12	25.	23.417	26.	14.	13.174	3.63	15.2	24.	25.	26.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	03/24/76-07/23/96	12	2.	1.992	3.	1.5	0.132	0.363	1.53	1.9	2.	2.73
00940p	CHLORIDE,TOTAL IN WATER MG/L	03/24/76-07/23/96	12	13.	13.	15.	9.	4.364	2.089	9.3	12.	15.	15.
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/24/76-07/23/96	12	9.	9.583	15.	6.	7.72	2.778	6.3	7.25	12.	14.4
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	03/24/76-07/23/96	12	0.2	0.238	0.4	0.05	0.008	0.088	0.095	0.2	0.3	0.37
01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/22/86-07/23/96	12	17.	16.583	19.	11.	5.356	2.314	11.9	15.25	18.	19.
01002p	ARSENIC, TOTAL (UG/L AS AS)	03/24/76-07/23/96	12	17.	16.333	19.	12.	4.242	2.06	12.6	15.	17.75	19.

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Annual Analysis for 1990 - Station TUZI0098

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th	
01005	BARIUM, DISSOLVED (UG/L AS BA)	10/22/86-07/23/96	12	175.	165.833	190.	100.	662.879	25.746	109.	162.5	180.	187.
01020p	BORON, DISSOLVED (UG/L AS B)	03/24/76-08/30/94	12	160.	154.167	170.	90.	517.424	22.747	102.	160.	167.5	170.
01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/24/76-07/23/96	12 ##	0.5	0.667	2.	0.5	0.197	0.444	0.5	0.5	0.5	1.7
01027p	CADMIUM, TOTAL (UG/L AS CD)	03/24/76-07/23/96	12 ##	0.5	0.708	3.	0.5	0.521	0.722	0.5	0.5	0.5	2.25
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	01/21/81-07/23/96	12	2.	2.	3.	0.5	0.455	0.674	0.65	2.	2.5	2.85
01034p	CHROMIUM, TOTAL (UG/L AS CR)	03/24/76-07/23/96	12	2.5	4.417	17.	1.	19.72	4.441	1.3	2.	5.5	14.3
01040	COPPER, DISSOLVED (UG/L AS CU)	10/05/83-07/23/96	12	2.	2.542	5.	0.5	3.521	1.876	0.65	1.	5.	5.
01042p	COPPER, TOTAL (UG/L AS CU)	03/24/76-07/23/96	12	4.5	4.583	10.	2.	4.265	2.065	2.3	3.	5.	8.8
01045p	IRON, TOTAL (UG/L AS FE)	03/24/76-07/23/96	12	390.	773.333	2100.	210.	462933.333	680.392	219.	277.5	1430.	2010.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/24/76-07/23/96	12	7.5	10.167	36.	3.	78.515	8.861	3.3	5.25	12.75	29.4
01049p	LEAD, DISSOLVED (UG/L AS PB)	01/21/81-07/23/96	12 ##	0.75	2.083	5.	0.5	4.674	2.162	0.5	0.5	5.	5.
01051p	LEAD, TOTAL (UG/L AS PB)	03/24/76-07/23/96	12	2.	2.042	4.	0.5	1.112	1.054	0.65	1.	3.	3.7
01055p	MANGANESE, TOTAL (UG/L AS MN)	03/24/76-07/23/96	12	25.	31.667	80.	10.	451.515	21.249	10.	20.	45.	74.
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	03/24/76-07/23/96	12	7.	7.167	11.	4.	6.152	2.48	4.	4.5	9.75	10.7
01075	SILVER, DISSOLVED (UG/L AS AG)	10/22/86-07/23/96	12 ##	0.5	0.792	2.	0.5	0.339	0.582	0.5	0.5	0.875	2.
01090	ZINC, DISSOLVED (UG/L AS ZN)	01/21/81-07/23/96	12	4.	4.	10.	1.5	6.455	2.541	1.5	1.5	5.75	8.8
01092p	ZINC, TOTAL (UG/L AS ZN)	03/24/76-07/23/96	12 ##	5.	10.417	30.	5.	70.265	8.382	5.	5.	17.5	27.
01145	SELENIUM, DISSOLVED (UG/L AS SE)	10/22/86-07/23/96	12 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
01147p	SELENIUM, TOTAL (UG/L AS SE)	03/24/76-07/23/96	12 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
31625p	FECAL COLIFORM, MF,M-FC, 0.7 UM	11/10/76-11/21/95	12	6.5	11.875	60.	0.	264.369	16.259	0.15	2.75	15.5	47.4
31625p	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	11/10/76-11/21/95	12	0.801	0.778	1.778	-0.301	0.328	0.573	-0.09	0.401	1.19	1.621
31625p	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			6.								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/20/77-11/21/95	12	115.	208.417	1025.	0.	89217.902	298.694	7.8	39.75	189.	890.
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/20/77-11/21/95	12	2.057	1.912	3.011	0.	0.581	0.762	0.424	1.594	2.276	2.935
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			81.672								
39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	10/19/88-06/25/96	12	257.	247.833	271.	165.	861.97	29.359	181.2	247.25	264.	270.4
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	10/22/86-07/23/96	12	261.	249.417	276.	166.	1038.811	32.231	177.4	248.	268.25	275.1
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/24/76-07/23/96	12	257.5	251.5	280.	202.	621.909	24.938	202.9	243.5	267.75	278.2
71900p	MERCURY, TOTAL (UG/L AS HG)	03/24/76-07/23/96	11 ##	0.05	0.055	0.1	0.05	0.	0.015	0.05	0.05	0.05	0.09
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/11/78-08/30/94	11	37.	46.	152.	16.	1413.8	37.601	16.6	20.	51.	133.6

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Annual Analysis for 1991 - Station TUZI0098

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	10/22/86-06/25/96	10	59.	59.4	61.	57.	1.822	1.35	57.1	58.75	61.	61.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/24/76-07/23/96	12	17.	16.417	22.5	8.5	24.629	4.963	8.95	11.875	21.	22.2
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/10/78-07/23/96	12	23.75	22.667	32.	8.	63.697	7.981	10.4	16.	29.375	32.
00025	BAROMETRIC PRESSURE (MM OF HG)	10/27/82-07/23/96	11	675.	673.273	680.	665.	20.018	4.474	665.4	670.	675.	679.6
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/24/76-06/25/96	12	80.5	232.417	1880.	75.	269306.265	518.947	75.6	77.	85.75	1349.6
00065	STAGE, STREAM (FEET)	10/27/82-06/25/96	12	0.08	0.408	3.85	0.03	1.18	1.086	0.033	0.04	0.14	2.782
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/12/79-07/23/96	11	11.	18.591	70.	1.1	516.613	22.729	1.38	2.7	23.	66.4
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/24/76-07/23/96	12	501.	453.667	548.	103.	16567.152	128.713	157.3	480.	506.	541.1
00300p	OXYGEN, DISSOLVED MG/L	03/24/76-07/23/96	11	9.5	9.536	11.7	7.	2.313	1.521	7.22	8.3	11.	11.56
00340p	COD, .25N K2CR2O7 MG/L	03/24/76-07/23/96	11	10.	11.273	31.	5.	80.818	8.99	5.	5.	12.	30.
00400p	PH (STANDARD UNITS)	03/24/76-07/23/96	12	8.28	8.255	8.41	8.	0.017	0.129	8.018	8.17	8.355	8.407
00400p	CONVERTED PH (STANDARD UNITS)	03/24/76-07/23/96	12	8.28	8.236	8.41	8.	0.017	0.13	8.018	8.17	8.355	8.407
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/24/76-07/23/96	12	0.005	0.006	0.01	0.004	0.	0.002	0.004	0.004	0.007	0.01
00403p	PH, LAB, STANDARD UNITS SU	01/21/81-07/23/96	12	8.25	8.225	8.3	8.	0.009	0.097	8.03	8.2	8.3	8.3
00403p	CONVERTED PH, LAB, STANDARD UNITS	01/21/81-07/23/96	12	8.247	8.214	8.3	8.	0.009	0.097	8.03	8.2	8.3	8.3
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/21/81-07/23/96	12	0.006	0.006	0.01	0.005	0.	0.002	0.005	0.005	0.006	0.009
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/24/76-04/02/91	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	10/22/86-07/23/96	9	0.	1.444	8.	0.	8.778	2.963	0.	0.	2.5	8.
00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	10/22/86-07/23/96	12	266.5	236.333	329.	63.	8346.288	91.358	87.45	156.125	323.75	329.
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/24/79-07/23/96	11	6.	60.136	423.	1.	15254.005	123.507	1.6	4.	61.	355.4
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/16/81-07/23/96	11 ##	0.005	0.013	0.05	0.005	0.	0.015	0.005	0.005	0.02	0.046

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Annual Analysis for 1991 - Station TUZI0098

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00625p	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	03/24/76-07/23/96	11 ##	0.1	0.227	0.7	0.1	0.04	0.2	0.1	0.3	0.66
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/24/76-07/23/96	11	0.11	0.115	0.31	0.025	0.008	0.087	0.025	0.05	0.16
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	03/24/76-07/23/96	11	0.03	0.092	0.55	0.005	0.026	0.163	0.005	0.01	0.07
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	03/24/76-07/23/96	12	51.	46.917	54.	14.	131.538	11.469	20.6	46.75	54.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/24/76-07/23/96	12	23.5	20.817	24.	3.8	42.04	6.484	5.96	22.25	24.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	03/24/76-07/23/96	12	23.5	21.392	26.	3.7	47.586	6.898	5.89	22.	25.75
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	03/24/76-07/23/96	12	1.95	1.958	2.8	1.	0.161	0.401	1.24	1.825	2.1
00940p	CHLORIDE, TOTAL IN WATER MG/L	03/24/76-07/23/96	12	14.	12.5	16.	2.	17.182	4.145	3.5	11.25	15.
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/24/76-07/23/96	12	8.	7.917	10.	3.	5.356	2.314	3.3	7.25	10.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	03/24/76-07/23/96	12	0.2	0.154	0.3	0.05	0.007	0.081	0.05	0.063	0.2
01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/22/86-07/23/96	11	16.	14.455	18.	2.	21.473	4.634	3.8	14.	17.
01002p	ARSENIC, TOTAL (UG/L AS AS)	03/24/76-07/23/96	11	16.	14.364	19.	2.	23.055	4.802	3.4	15.	16.
01005	BARIUM, DISSOLVED (UG/L AS BA)	10/22/86-07/23/96	12	180.	157.75	180.	49.	2068.75	45.484	56.5	170.	180.
01020p	BORON, DISSOLVED (UG/L AS B)	03/24/76-08/30/94	11	160.	137.273	180.	30.	2481.818	49.818	40.	80.	170.
01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/24/76-07/23/96	11 ##	0.5	0.591	1.	0.5	0.041	0.202	0.5	0.5	1.
01027p	CADMIUM, TOTAL (UG/L AS CD)	03/24/76-07/23/96	11 ##	0.5	0.545	1.	0.5	0.023	0.151	0.5	0.5	0.9
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	01/21/81-07/23/96	11 ##	0.5	1.182	3.	0.5	0.814	0.902	0.5	0.5	2.
01034p	CHROMIUM, TOTAL (UG/L AS CR)	03/24/76-07/23/96	11	5.	7.091	22.	1.	48.091	6.935	1.2	2.	10.
01040	COPPER, DISSOLVED (UG/L AS CU)	10/05/83-07/23/96	11 ##	0.5	1.182	3.	0.5	0.814	0.902	0.5	0.5	2.
01042p	COPPER, TOTAL (UG/L AS CU)	03/24/76-07/23/96	10	5.	6.5	23.	2.	39.389	6.276	2.	2.75	7.
01045p	IRON, TOTAL (UG/L AS FE)	03/24/76-07/23/96	11	390.	1690.	11000.	100.	11146140.	3338.584	104.	140.	9700.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/24/76-07/23/96	11	6.	22.909	150.	4.	1962.891	44.305	4.	5.	7.
01049p	LEAD, DISSOLVED (UG/L AS PB)	01/21/81-07/23/96	11 ##	0.5	0.545	1.	0.5	0.023	0.151	0.5	0.5	0.9
01051p	LEAD, TOTAL (UG/L AS PB)	03/24/76-07/23/96	10	2.	5.4	31.	1.	83.156	9.119	1.	1.75	4.5
01055p	MANGANESE, TOTAL (UG/L AS MN)	03/24/76-07/23/96	11	20.	64.091	420.	5.	14804.091	121.672	6.	10.	40.
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	03/24/76-07/23/96	11	5.	5.364	8.	1.	4.055	2.014	1.6	4.	7.
01075	SILVER, DISSOLVED (UG/L AS AG)	10/22/86-07/23/96	11 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5
01090	ZINC, DISSOLVED (UG/L AS ZN)	01/21/81-07/23/96	11	4.	3.864	9.	1.5	6.805	2.609	1.5	1.5	5.
01092p	ZINC, TOTAL (UG/L AS ZN)	03/24/76-07/23/96	11 ##	5.	20.909	80.	5.	614.091	24.781	5.	5.	30.
01145	SELENIUM, DISSOLVED (UG/L AS SE)	10/22/86-07/23/96	11 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5
01147p	SELENIUM, TOTAL (UG/L AS SE)	03/24/76-07/23/96	11 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5
31625p	FECAL COLIFORM, MF,M-FC, 0.7 UM	11/10/76-11/21/95	11	8.	744.273	8000.	3.	5791441.418	2406.541	3.	4.	48.
31625p	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	11/10/76-11/21/95	11	0.903	1.264	3.903	0.477	0.999	1.	0.477	0.602	1.681
31625p	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			18.353							
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/20/77-11/21/95	10	33.	67.7	220.	3.	5014.678	70.814	4.3	19.	125.25
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/20/77-11/21/95	10	1.519	1.574	2.342	0.477	0.305	0.553	0.55	1.277	2.097
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			37.518							
39036	ALKALINITY, FILTERED SAMPLE AS CaCO3 MG/L	10/19/88-06/25/96	12	253.5	226.417	269.	52.	4314.447	65.684	80.2	212.25	267.5
39086	ALKALINITY, WATER, DISS, INCR TIT, FIELD, AS CaCO3, MG/L	10/22/86-07/23/96	12	254.	227.167	271.	52.	4342.333	65.896	79.9	215.25	269.
70300p	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L	03/24/76-07/23/96	11	269.	250.091	306.	74.	4719.491	68.699	92.2	267.	284.
71900p	MERCURY, TOTAL (UG/L AS HG)	03/24/76-07/23/96	11 ##	0.05	0.055	0.1	0.05	0.	0.015	0.05	0.05	0.09
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/11/78-08/30/94	9	49.	105.111	495.	11.	23853.361	154.445	11.	21.5	130.5

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Annual Analysis for 1992 - Station TUZI0098

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	10/22/86-06/25/96	12	58.5	60.583	72.	57.	26.629	5.16	57.3	58.	59.75
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/24/76-07/23/96	13	19.	16.885	22.5	8.	23.631	4.861	8.6	12.25	20.75
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/10/78-07/23/96	12	24.	23.625	37.5	8.5	90.006	9.487	9.25	17.25	33.5
00025	BAROMETRIC PRESSURE (MM OF HG)	10/27/82-07/23/96	12	677.5	677.417	683.	670.	13.356	3.655	670.6	676.	680.
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/24/76-06/25/96	13	82.	127.615	401.	79.	12010.423	109.592	79.	80.	90.5
00065	STAGE, STREAM (FEET)	10/27/82-06/25/96	13	0.08	0.277	1.45	0.05	0.231	0.481	0.05	0.065	0.13
00076	TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/12/79-07/23/96	12	5.	25.817	100.	0.6	1148.116	33.884	0.93	2.025	56.75
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/24/76-07/23/96	13	495.	454.	534.	201.	12858.	113.393	202.2	470.	515.5
00300p	OXYGEN, DISSOLVED MG/L	03/24/76-07/23/96	12	8.75	9.133	11.7	7.5	1.622	1.274	7.59	8.025	10.05

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Annual Analysis for 1992 - Station TUZI0098

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00340p	COD, .25N K2CR2O7 MG/L	03/24/76-07/23/96	12	11.5	11.333	24.	5.	45.333	6.733	5.	5.	14.75	23.4
00400p	PH (STANDARD UNITS)	03/24/76-07/23/96	13	8.3	8.254	8.4	7.9	0.021	0.145	7.98	8.2	8.4	8.4
00400p	CONVERTED PH (STANDARD UNITS)	03/24/76-07/23/96	13	8.3	8.229	8.4	7.9	0.022	0.147	7.98	8.2	8.4	8.4
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/24/76-07/23/96	13	0.005	0.006	0.013	0.004	0.	0.002	0.004	0.004	0.006	0.011
00403p	PH, LAB, STANDARD UNITS SU	01/21/81-07/23/96	12	8.2	8.158	8.3	7.8	0.024	0.156	7.83	8.125	8.275	8.3
00403p	CONVERTED PH, LAB, STANDARD UNITS	01/21/81-07/23/96	12	8.2	8.128	8.3	7.8	0.025	0.16	7.83	8.125	8.275	8.3
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/21/81-07/23/96	12	0.006	0.007	0.016	0.005	0.	0.003	0.005	0.005	0.008	0.015
00452	CARBONATE, WATER, DISS, INCR TIT, FIELD, AS CO3, MG/L	10/22/86-07/23/96	13	0.	5.154	48.	0.	175.308	13.24	0.	0.	3.	33.2
00453	BICARBONATE, WATER, DISS, INCR TIT, FIELD, AS HCO3, MG/L	10/22/86-07/23/96	13	300.	269.462	327.	118.	5155.769	71.804	120.	250.	312.5	325.
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/24/79-07/23/96	12	20.	51.917	176.	4.	4087.538	63.934	4.	6.	114.25	169.1
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/16/81-07/23/96	12	0.02	0.021	0.07	0.005	0.	0.017	0.007	0.01	0.028	0.058
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/24/76-07/23/96	12 ##	0.1	0.2	0.6	0.1	0.031	0.176	0.1	0.1	0.275	0.57
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/24/76-07/23/96	12	0.11	0.128	0.27	0.025	0.007	0.081	0.036	0.06	0.19	0.264
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	03/24/76-07/23/96	12	0.02	0.064	0.21	0.005	0.006	0.079	0.005	0.006	0.145	0.204
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	03/24/76-07/23/96	12	50.5	47.	56.	23.	126.	11.225	23.3	49.	52.75	56.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/24/76-07/23/96	12	22.5	20.075	24.	8.3	31.344	5.599	8.39	19.5	23.	24.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	03/24/76-07/23/96	12	23.	20.408	26.	6.7	41.612	6.451	6.85	21.	23.75	25.7
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	03/24/76-07/23/96	12	2.	1.917	2.5	1.2	0.149	0.386	1.2	1.825	2.15	2.44
00940p	CHLORIDE, TOTAL IN WATER MG/L	03/24/76-07/23/96	12	13.5	13.167	18.	5.	17.424	4.174	5.	13.	16.	17.7
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/24/76-07/23/96	12	8.	7.417	9.	4.	2.992	1.73	4.	7.	8.75	9.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	03/24/76-07/23/96	12	0.2	0.196	0.3	0.05	0.005	0.069	0.065	0.2	0.2	0.3
01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/22/86-07/23/96	12	17.	15.167	18.	4.	25.424	5.042	4.3	16.	18.	18.
01002p	ARSENIC, TOTAL (UG/L AS AS)	03/24/76-07/23/96	12	17.	14.75	18.	4.	26.386	5.137	4.	15.	18.	18.
01005	BARIUM, DISSOLVED (UG/L AS BA)	10/22/86-07/23/96	12	170.	150.917	190.	53.	2114.811	45.987	54.5	150.	177.5	187.
01020p	BORON, DISSOLVED (UG/L AS B)	03/24/76-08/30/94	12	165.	149.167	210.	40.	2553.788	50.535	43.	160.	170.	198.
01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/24/76-07/23/96	12 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
01027p	CADMIUM, TOTAL (UG/L AS CD)	03/24/76-07/23/96	12 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	01/21/81-07/23/96	12 ##	0.75	1.083	2.	0.5	0.492	0.702	0.5	0.5	2.	2.
01034p	CHROMIUM, TOTAL (UG/L AS CR)	03/24/76-07/23/96	12	2.	2.375	8.	0.5	4.733	2.176	0.5	0.625	2.75	7.1
01040	COPPER, DISSOLVED (UG/L AS CU)	10/05/83-07/23/96	12	1.	1.708	7.	0.5	3.839	1.959	0.5	0.5	2.	6.1
01042p	COPPER, TOTAL (UG/L AS CU)	03/24/76-07/23/96	12	3.	3.458	8.	0.5	7.384	2.717	0.5	0.625	5.75	7.7
01045p	IRON, TOTAL (UG/L AS FE)	03/24/76-07/23/96	12	290.	940.833	2600.	70.	997117.424	998.558	79.	142.5	1875.	2570.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/24/76-07/23/96	12	6.5	19.583	91.	1.5	921.083	30.349	1.5	1.5	22.	85.9
01049p	LEAD, DISSOLVED (UG/L AS PB)	01/21/81-07/23/96	12 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
01051p	LEAD, TOTAL (UG/L AS PB)	03/24/76-07/23/96	12 ##	1.25	2.5	6.	0.5	5.591	2.365	0.5	0.5	5.	6.
01055p	MANGANESE, TOTAL (UG/L AS MN)	03/24/76-07/23/96	12	20.	42.917	120.	5.	1674.811	40.924	6.5	12.5	80.	117.
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	03/24/76-07/23/96	12	4.	4.667	9.	3.	3.515	1.875	3.	3.	5.75	8.4
01075	SILVER, DISSOLVED (UG/L AS AG)	10/22/86-07/23/96	12 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
01090	ZINC, DISSOLVED (UG/L AS ZN)	01/21/81-07/23/96	12 ##	1.5	3.208	8.	1.5	5.294	2.301	1.5	1.5	5.	7.4
01092p	ZINC, TOTAL (UG/L AS ZN)	03/24/76-07/23/96	12 ##	7.5	9.167	20.	5.	31.061	5.573	5.	5.	10.	20.
01145	SELENIUM, DISSOLVED (UG/L AS SE)	10/22/86-07/23/96	12 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
01147p	SELENIUM, TOTAL (UG/L AS SE)	03/24/76-07/23/96	12 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
31625p	FECAL COLIFORM, MF, M-FC, 0.7 UM	11/10/76-11/21/95	13	17.	89.308	450.	3.	19669.731	140.249	3.	8.5	122.	398.
31625p	LOG FECAL COLIFORM, MF, M-FC, 0.7 UM	11/10/76-11/21/95	13	1.23	1.439	2.653	0.477	0.519	0.72	0.477	0.929	2.082	2.594
31625p	GM FECAL COLIFORM, MF, M-FC, 0.7 UM	GEOMETRIC MEAN =			27.495								
31673	FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	06/20/77-11/21/95	12	51.5	246.25	1100.	10.	115223.841	339.446	13.3	32.75	472.5	950.
31673	LOG FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	06/20/77-11/21/95	12	1.712	1.974	3.041	1.	0.424	0.651	1.097	1.508	2.672	2.962
31673	GM FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	GEOMETRIC MEAN =			94.108								
39036	ALKALINITY, FILTERED SAMPLE AS CaCO3 MG/L	10/19/88-06/25/96	13	246.	227.385	266.	97.	3339.256	57.786	98.6	235.5	259.	264.4
39086	ALKALINITY, WATER, DISS, INCR TIT, FIELD, AS CaCO3, MG/L	10/22/86-07/23/96	13	250.	229.385	268.	97.	3427.59	58.546	98.6	240.	260.5	266.4
70300p	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L	03/24/76-07/23/96	12	280.	256.667	301.	123.	3633.333	60.277	128.1	254.5	293.	299.5
71900p	MERCURY, TOTAL (UG/L AS HG)	03/24/76-07/23/96	12 ##	0.05	0.054	0.1	0.05	0.	0.014	0.05	0.05	0.05	0.085
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/11/78-08/30/94	3	16.	19.	27.	14.	49.	7.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1993 - Station TUZI0098

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	10/22/86-06/25/96	8	90.	89.125	91.	86.	4.411	2.1	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/24/76-07/23/96	11	18.	14.682	22.	5.	55.464	7.447	5.	6.	21.5
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/10/78-07/23/96	11	22.	19.818	34.5	4.	80.314	8.962	5.2	10.5	25.
00025	BAROMETRIC PRESSURE (MM OF HG)	10/27/82-07/23/96	11	678.	676.727	684.	656.	52.618	7.254	659.8	677.	680.
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/24/76-06/25/96	11	94.	645.545	3600.	84.	1223486.073	1106.113	84.	85.	1320.
00065	STAGE, STREAM (FEET)	10/27/82-06/25/96	11	1.11	1.898	5.56	1.05	2.203	1.484	1.05	1.06	3.22
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/12/79-07/23/96	11	1.9	62.064	460.	0.2	18341.727	135.432	0.22	0.4	63.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/24/76-07/23/96	11	493.	410.455	576.	146.	24775.273	157.402	150.4	203.	510.
00300p	OXYGEN, DISSOLVED MG/L	03/24/76-07/23/96	11	9.4	9.755	11.6	8.	1.957	1.399	8.06	8.4	11.3
00340p	COD, .25N K2CR2O7 MG/L	03/24/76-07/23/96	11	13.	18.364	61.	5.	382.855	19.567	5.	5.	28.
00400p	PH (STANDARD UNITS)	03/24/76-07/23/96	11	8.3	8.2	8.4	7.8	0.052	0.228	7.8	8.	8.4
00400p	CONVERTED PH (STANDARD UNITS)	03/24/76-07/23/96	11	8.3	8.138	8.4	7.8	0.056	0.237	7.8	8.	8.4
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/24/76-07/23/96	11	0.005	0.007	0.016	0.004	0.	0.005	0.004	0.004	0.01
00403p	PH, LAB, STANDARD UNITS SU	01/21/81-07/23/96	11	8.1	8.155	8.6	8.	0.031	0.175	8.	8.	8.2
00403p	CONVERTED PH, LAB, STANDARD UNITS	01/21/81-07/23/96	11	8.1	8.128	8.6	8.	0.032	0.177	8.	8.	8.2
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/21/81-07/23/96	11	0.008	0.007	0.01	0.003	0.	0.002	0.003	0.006	0.01
00452	CARBONATE, WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	10/22/86-07/23/96	11	1.	2.545	12.	0.	14.873	3.857	0.	0.	4.
00453	BICARBONATE, WATER,DISS,INCR TIT, FIELD, AS HCO3, MG/L	10/22/86-07/23/96	11	291.	241.182	320.	79.	9091.164	95.348	81.8	116.	305.
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/24/79-07/23/96	11	32.	131.318	880.	0.5	65666.314	256.254	0.6	2.	158.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/16/81-07/23/96	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/24/76-07/23/96	11 ##	0.1	0.2	0.6	0.1	0.028	0.167	0.1	0.1	0.3
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/24/76-07/23/96	1	0.15	0.15	0.15	0.15	0.	0.	**	**	**
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	03/24/76-07/23/96	11	0.02	0.096	0.44	0.005	0.02	0.141	0.005	0.01	0.21
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	03/24/76-07/23/96	11	49.	43.	54.	19.	193.2	13.9	19.4	25.	52.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/24/76-07/23/96	11	22.	17.891	24.	4.7	62.341	7.896	4.9	7.4	24.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	03/24/76-07/23/96	11	24.	18.782	26.	4.7	71.402	8.45	4.88	8.3	25.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	03/24/76-07/23/96	11	2.	2.036	2.3	1.7	0.053	0.229	1.7	1.8	2.3
00940p	CHLORIDE, TOTAL IN WATER MG/L	03/24/76-07/23/96	11	13.	10.364	14.	3.	18.055	4.249	3.2	5.	13.
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/24/76-07/23/96	11	9.	7.545	10.	3.	5.673	2.382	3.2	5.	9.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	03/24/76-07/23/96	11	0.2	0.186	0.3	0.1	0.005	0.071	0.1	0.1	0.2
01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/22/86-07/23/96	10	13.5	11.1	18.	2.	39.433	6.28	2.	3.5	16.25
01002p	ARSENIC, TOTAL (UG/L AS AS)	03/24/76-07/23/96	11	15.	12.636	17.	4.	24.655	4.965	4.	9.	17.
01005	BARIUM, DISSOLVED (UG/L AS BA)	10/22/86-07/23/96	10	140.	109.8	160.	18.	3510.622	59.251	18.8	32.	152.5
01020p	BORON, DISSOLVED (UG/L AS B)	03/24/76-08/30/94	11	180.	140.	200.	20.	4960.	70.427	24.	40.	190.
01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/24/76-07/23/96	10 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5
01027p	CADMIUM, TOTAL (UG/L AS CD)	03/24/76-07/23/96	11 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	01/21/81-07/23/96	10 ##	0.5	0.55	1.	0.5	0.025	0.158	0.5	0.5	0.95
01034p	CHROMIUM, TOTAL (UG/L AS CR)	03/24/76-07/23/96	11	2.	3.545	16.	0.5	26.173	5.116	0.5	0.5	3.
01040	COPPER, DISSOLVED (UG/L AS CU)	10/05/83-07/23/96	10 ##	0.5	1.9	5.	0.5	3.933	1.983	0.5	0.5	4.25
01042p	COPPER, TOTAL (UG/L AS CU)	03/24/76-07/23/96	11	2.	4.773	24.	0.5	48.468	6.962	0.5	0.5	7.
01045p	IRON, TOTAL (UG/L AS FE)	03/24/76-07/23/96	11	140.	2839.091	20000.	40.	35434929.091	5952.725	40.	50.	4000.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/24/76-07/23/96	10	6.	22.4	110.	1.5	1353.1	36.785	1.5	4.125	26.25
01049p	LEAD, DISSOLVED (UG/L AS PB)	01/21/81-07/23/96	10 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5
01051p	LEAD, TOTAL (UG/L AS PB)	03/24/76-07/23/96	11 ##	0.5	3.091	18.	0.5	26.941	5.19	0.5	0.5	4.
01055p	MANGANESE, TOTAL (UG/L AS MN)	03/24/76-07/23/96	11	20.	116.818	800.	5.	54531.364	233.52	6.	10.	150.
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	03/24/76-07/23/96	10	5.	5.4	8.	3.	2.711	1.647	3.	4.5	7.
01075	SILVER, DISSOLVED (UG/L AS AG)	10/22/86-07/23/96	10 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5
01090	ZINC, DISSOLVED (UG/L AS ZN)	01/21/81-07/23/96	10 ##	1.5	2.2	6.	1.5	2.4	1.549	1.5	1.5	2.125
01092p	ZINC, TOTAL (UG/L AS ZN)	03/24/76-07/23/96	11 ##	5.	13.636	70.	5.	385.455	19.633	5.	5.	20.
01145	SELENIUM, DISSOLVED (UG/L AS SE)	10/22/86-07/23/96	10 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5
01147p	SELENIUM, TOTAL (UG/L AS SE)	03/24/76-07/23/96	11 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5
31625p	FECAL COLIFORM, MF,M-FC, 0.7 UM	11/10/76-11/21/95	10	24.	80.	320.	2.	11046.889	105.104	2.4	7.5	162.5
31625p	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	11/10/76-11/21/95	10	1.38	1.471	2.505	0.301	0.511	0.715	0.349	0.872	2.211
31625p	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			29.579							
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/20/77-11/21/95	11	27.	104.545	420.	2.	17566.473	132.539	2.6	7.	180.
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/20/77-11/21/95	11	1.431	1.517	2.623	0.301	0.641	0.8	0.381	0.845	2.255
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			32.888							
39036	ALKALINITY, FILTERED SAMPLE AS CACO3 MG/L	10/19/88-06/25/96	11	246.	201.818	266.	66.	6426.364	80.165	68.2	95.	257.
39086	ALKALINITY, WATER, DISS, INCR TIT, FIELD, AS CACO3, MG/L	10/22/86-07/23/96	11	246.	202.091	265.	65.	6479.891	80.498	67.4	95.	258.

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1993 - Station TUZI0098

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
70300p RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L	03/24/76-07/23/96	11	247.	221.727	292.	109.	5002.018	70.725	111.6	135.	279.	291.2
71900p MERCURY, TOTAL (UG/L AS HG)	03/24/76-07/23/96	11 ##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05
80154p SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/11/78-08/30/94	11	17.	154.182	1080.	3.	100697.964	317.329	3.4	5.	179.	912.2

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1994 - Station TUZI0098

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004 STREAM WIDTH (FEET)	10/22/86-06/25/96	6	88.	87.667	89.	85.	1.867	1.366	**	**	**	**
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/24/76-07/23/96	6	15.	15.167	22.	9.5	30.467	5.52	**	**	**	**
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/10/78-07/23/96	6	20.5	19.	28.	9.	59.3	7.701	**	**	**	**
00025 BAROMETRIC PRESSURE (MM OF HG)	10/27/82-07/23/96	6	678.5	678.167	680.	675.	3.767	1.941	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS CFS	03/24/76-06/25/96	6	85.	87.333	99.	81.	49.067	7.005	**	**	**	**
00065 STAGE, STREAM (FEET)	10/27/82-06/25/96	6	1.055	1.067	1.14	1.02	0.002	0.046	**	**	**	**
00076 TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/12/79-07/23/96	6	0.8	1.033	2.4	0.4	0.523	0.723	**	**	**	**
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/24/76-07/23/96	6	508.	509.333	525.	497.	84.267	9.18	**	**	**	**
00300p OXYGEN, DISSOLVED MG/L	03/24/76-07/23/96	6	10.15	9.85	11.6	8.2	1.439	1.2	**	**	**	**
00340p COD, .25N K2CR2O7 MG/L	03/24/76-07/23/96	6 ##	5.	6.167	12.	5.	8.167	2.858	**	**	**	**
00400p PH (STANDARD UNITS)	03/24/76-07/23/96	6	8.3	8.317	8.4	8.2	0.006	0.075	**	**	**	**
00400p CONVERTED PH (STANDARD UNITS)	03/24/76-07/23/96	6	8.3	8.311	8.4	8.2	0.006	0.076	**	**	**	**
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/24/76-07/23/96	6	0.005	0.005	0.006	0.004	0.	0.001	**	**	**	**
00403p PH, LAB, STANDARD UNITS SU	01/21/81-07/23/96	6	7.95	7.933	8.	7.8	0.007	0.082	**	**	**	**
00403p CONVERTED PH, LAB, STANDARD UNITS	01/21/81-07/23/96	6	7.947	7.927	8.	7.8	0.007	0.082	**	**	**	**
00403p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/21/81-07/23/96	6	0.011	0.012	0.016	0.01	0.	0.002	**	**	**	**
00452 CARBONATE, WATER, DISS, INCR TIT, FIELD, AS CO3, MG/L	10/22/86-07/23/96	6	0.	2.333	8.	0.	13.467	3.67	**	**	**	**
00453 BICARBONATE, WATER, DISS, INCR TIT, FIELD, AS HCO3, MG/L	10/22/86-07/23/96	6	308.5	306.333	316.	287.	99.867	9.993	**	**	**	**
00530p RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/24/79-07/23/96	6	4.5	7.917	19.	0.5	58.242	7.632	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/16/81-07/23/96	6	0.02	0.018	0.03	0.005	0.	0.009	**	**	**	**
00625p NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/24/76-07/23/96	6 ##	0.1	0.122	0.23	0.1	0.003	0.053	**	**	**	**
00630p NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/24/76-07/23/96	6	0.055	0.078	0.17	0.04	0.003	0.053	**	**	**	**
00665p PHOSPHORUS, TOTAL (MG/L AS P)	03/24/76-07/23/96	6	0.02	0.03	0.08	0.01	0.001	0.025	**	**	**	**
00915p CALCIUM, DISSOLVED (MG/L AS CA)	03/24/76-07/23/96	6	51.5	51.833	55.	49.	5.367	2.317	**	**	**	**
00925p MAGNESIUM, DISSOLVED (MG/L AS MG)	03/24/76-07/23/96	6	24.	24.	25.	23.	0.4	0.632	**	**	**	**
00930p SODIUM, DISSOLVED (MG/L AS NA)	03/24/76-07/23/96	6	24.5	24.5	26.	23.	1.1	1.049	**	**	**	**
00935p POTASSIUM, DISSOLVED (MG/L AS K)	03/24/76-07/23/96	6	1.9	1.917	2.	1.9	0.002	0.041	**	**	**	**
00940p CHLORIDE, TOTAL IN WATER MG/L	03/24/76-07/23/96	6	13.	13.167	14.	13.	0.167	0.408	**	**	**	**
00945p SULFATE, TOTAL (MG/L AS SO4)	03/24/76-07/23/96	6	8.5	8.333	9.	7.	0.667	0.816	**	**	**	**
00950p FLUORIDE, DISSOLVED (MG/L AS F)	03/24/76-07/23/96	6	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
01000 ARSENIC, DISSOLVED (UG/L AS AS)	10/22/86-07/23/96	2	13.5	13.5	16.	11.	12.5	3.536	**	**	**	**
01002p ARSENIC, TOTAL (UG/L AS AS)	03/24/76-07/23/96	6	15.	15.167	18.	13.	2.967	1.722	**	**	**	**
01005 BARIUM, DISSOLVED (UG/L AS BA)	10/22/86-07/23/96	2	170.	170.	170.	170.	0.	0.	**	**	**	**
01020p BORON, DISSOLVED (UG/L AS B)	03/24/76-08/30/94	4	175.	172.5	180.	160.	91.667	9.574	**	**	**	**
01022 BORON, TOTAL (UG/L AS B)	03/24/76-07/23/96	1	180.	180.	180.	180.	0.	0.	**	**	**	**
01025 CADMIUM, DISSOLVED (UG/L AS CD)	03/24/76-07/23/96	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01027p CADMIUM, TOTAL (UG/L AS CD)	03/24/76-07/23/96	6 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01030 CHROMIUM, DISSOLVED (UG/L AS CR)	01/21/81-07/23/96	2	1.	1.	1.	1.	0.	0.	**	**	**	**
01034p CHROMIUM, TOTAL (UG/L AS CR)	03/24/76-07/23/96	6	1.	3.333	14.	1.	27.467	5.241	**	**	**	**
01040 COPPER, DISSOLVED (UG/L AS CU)	10/05/83-07/23/96	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01042p COPPER, TOTAL (UG/L AS CU)	03/24/76-07/23/96	6 ##	0.75	0.917	2.	0.5	0.342	0.585	**	**	**	**
01045p IRON, TOTAL (UG/L AS FE)	03/24/76-07/23/96	6	80.	118.333	270.	40.	7456.667	86.352	**	**	**	**
01046p IRON, DISSOLVED (UG/L AS FE)	03/24/76-07/23/96	2	9.	9.	11.	7.	8.	2.828	**	**	**	**
01049p LEAD, DISSOLVED (UG/L AS PB)	01/21/81-07/23/96	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01051p LEAD, TOTAL (UG/L AS PB)	03/24/76-07/23/96	6 ##	0.5	0.917	3.	0.5	1.042	1.021	**	**	**	**
01055p MANGANESE, TOTAL (UG/L AS MN)	03/24/76-07/23/96	6	10.	10.833	20.	5.	24.167	4.916	**	**	**	**
01056p MANGANESE, DISSOLVED (UG/L AS MN)	03/24/76-07/23/96	2	5.5	5.5	7.	4.	4.5	2.121	**	**	**	**
01075 SILVER, DISSOLVED (UG/L AS AG)	10/22/86-07/23/96	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1994 - Station TUZI0098

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01090	ZINC, DISSOLVED (UG/L AS ZN)	01/21/81-07/23/96	2	5.5	5.5	6.	5.	0.5	0.707	**	**	**	**
01092p	ZINC, TOTAL (UG/L AS ZN)	03/24/76-07/23/96	6###	5.	7.5	20.	5.	37.5	6.124	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	10/22/86-07/23/96	2##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01147p	SELENIUM, TOTAL (UG/L AS SE)	03/24/76-07/23/96	6###	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
31625p	FECAL COLIFORM, MF,M-FC, 0.7 UM	11/10/76-11/21/95	5	7.	13.3	33.	1.5	163.2	12.775	**	**	**	**
31625p	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	11/10/76-11/21/95	5	0.845	0.919	1.519	0.176	0.267	0.516	**	**	**	**
31625p	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			8.305								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/20/77-11/21/95	5	24.	36.6	91.	6.	1141.8	33.791	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/20/77-11/21/95	5	1.38	1.397	1.959	0.778	0.202	0.449	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			24.938								
39036	ALKALINITY,FILTERED SAMPLE AS CaCO3 MG/L	10/19/88-06/25/96	6	253.5	253.667	263.	244.	39.867	6.314	**	**	**	**
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CaCO3,MG/L	10/22/86-07/23/96	6	253.5	254.167	263.	245.	39.367	6.274	**	**	**	**
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/24/76-07/23/96	6	283.5	283.167	297.	268.	101.367	10.068	**	**	**	**
71900p	MERCURY, TOTAL (UG/L AS HG)	03/24/76-07/23/96	6###	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/11/78-08/30/94	4	27.5	29.	49.	12.	259.333	16.104	**	**	**	**

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Annual Analysis for 1995 - Station TUZI0098

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	10/22/86-06/25/96	4	73.	75.25	87.	68.	67.583	8.221	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/24/76-07/23/96	5	14.5	16.8	23.	11.	31.075	5.574	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/10/78-07/23/96	5	30.	28.7	35.	23.	30.2	5.495	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	10/27/82-07/23/96	5	680.	678.2	680.	674.	7.2	2.683	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/24/76-06/25/96	5	90.	234.8	528.	82.	43524.7	208.626	**	**	**	**
00065	STAGE, STREAM (FEET)	10/27/82-06/25/96	5	0.27	0.844	1.97	0.2	0.709	0.842	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/12/79-07/23/96	5	6.3	11.44	32.	0.3	183.443	13.544	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/24/76-07/23/96	5	488.	383.2	507.	200.	24955.7	157.974	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	03/24/76-07/23/96	5	9.3	9.88	12.2	9.1	1.717	1.31	**	**	**	**
00340p	COD, .25N K2CR2O7 MG/L	03/24/76-07/23/96	5##	5.	11.6	23.	5.	82.8	9.099	**	**	**	**
00400p	PH (STANDARD UNITS)	03/24/76-07/23/96	5	8.4	8.26	8.4	7.9	0.048	0.219	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	03/24/76-07/23/96	5	8.4	8.21	8.4	7.9	0.051	0.226	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/24/76-07/23/96	5	0.004	0.006	0.013	0.004	0.	0.004	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	01/21/81-07/23/96	5	7.9	7.82	8.	7.5	0.037	0.192	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	01/21/81-07/23/96	5	7.9	7.782	8.	7.5	0.039	0.197	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/21/81-07/23/96	5	0.013	0.017	0.032	0.01	0.	0.009	**	**	**	**
00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	10/22/86-07/23/96	5	6.	5.2	10.	0.	25.2	5.02	**	**	**	**
00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	10/22/86-07/23/96	5	268.	218.8	295.	117.	8161.7	90.342	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/24/79-07/23/96	5	6.	8.5	16.	0.5	45.25	6.727	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/16/81-07/23/96	5	0.01	0.013	0.03	0.005	0.	0.01	**	**	**	**
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/24/76-07/23/96	5	0.21	0.22	0.45	0.1	0.021	0.143	**	**	**	**
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/24/76-07/23/96	5	0.08	0.066	0.12	0.01	0.002	0.045	**	**	**	**
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	03/24/76-07/23/96	5	0.02	0.038	0.09	0.01	0.001	0.036	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	03/24/76-07/23/96	5	47.	38.6	50.	22.	192.3	13.867	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/24/76-07/23/96	5	21.	17.04	24.	7.7	68.183	8.257	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	03/24/76-07/23/96	5	22.	17.14	25.	7.	81.098	9.005	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	03/24/76-07/23/96	5	1.9	1.74	2.3	1.3	0.188	0.434	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	03/24/76-07/23/96	5	12.	9.2	13.	4.	22.7	4.764	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/24/76-07/23/96	5	7.	5.8	8.	3.	6.7	2.588	**	**	**	**
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	03/24/76-07/23/96	5	0.2	0.16	0.2	0.1	0.003	0.055	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/22/86-07/23/96	5	9.	9.8	17.	4.	31.7	5.63	**	**	**	**
01002p	ARSENIC, TOTAL (UG/L AS AS)	03/24/76-07/23/96	5	15.	11.6	18.	4.	43.3	6.58	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	10/22/86-07/23/96	5	150.	116.4	170.	50.	3614.8	60.123	**	**	**	**
01022	BORON, TOTAL (UG/L AS B)	03/24/76-07/23/96	5	160.	120.	170.	50.	4100.	64.031	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/24/76-07/23/96	5##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01027p	CADMIUM, TOTAL (UG/L AS CD)	03/24/76-07/23/96	5##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**

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Annual Analysis for 1995 - Station TUZI0098

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	01/21/81-07/23/96	5	1.	0.9	1.	0.5	0.05	0.224	**	**	**	**
01034p	CHROMIUM, TOTAL (UG/L AS CR)	03/24/76-07/23/96	5	2.	1.8	3.	1.	0.7	0.837	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	10/05/83-07/23/96	5##	0.5	1.5	3.	0.5	1.875	1.369	**	**	**	**
01042p	COPPER, TOTAL (UG/L AS CU)	03/24/76-07/23/96	5##	0.5	1.3	3.	0.5	1.325	1.151	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	03/24/76-07/23/96	5	270.	514.	1500.	30.	365430.	604.508	**	**	**	**
01046p	IRON, DISSOLVED (UG/L AS FE)	03/24/76-07/23/96	5	8.	80.9	200.	1.5	10866.8	104.244	**	**	**	**
01049p	LEAD, DISSOLVED (UG/L AS PB)	01/21/81-07/23/96	5##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01051p	LEAD, TOTAL (UG/L AS PB)	03/24/76-07/23/96	5##	0.5	0.6	1.	0.5	0.05	0.224	**	**	**	**
01055p	MANGANESE, TOTAL (UG/L AS MN)	03/24/76-07/23/96	5	10.	19.	50.	5.	330.	18.166	**	**	**	**
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	03/24/76-07/23/96	5	5.	4.8	6.	3.	1.7	1.304	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	10/22/86-07/23/96	5##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	01/21/81-07/23/96	5	5.	5.8	14.	1.5	26.575	5.155	**	**	**	**
01092p	ZINC, TOTAL (UG/L AS ZN)	03/24/76-07/23/96	5##	5.	5.	5.	5.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	10/22/86-07/23/96	5##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01147p	SELENIUM, TOTAL (UG/L AS SE)	03/24/76-07/23/96	5##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
31625p	FECAL COLIFORM, MF,M-FC, 0.7 UM	11/10/76-11/21/95	5	7.	21.6	67.	3.	751.8	27.419	**	**	**	**
31625p	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	11/10/76-11/21/95	5	0.845	1.015	1.826	0.477	0.363	0.603	**	**	**	**
31625p	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			10.34								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/20/77-11/21/95	5	22.	56.2	140.	9.	3618.2	60.151	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/20/77-11/21/95	5	1.342	1.489	2.146	0.954	0.31	0.557	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			30.801								
39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	10/19/88-06/25/96	5	238.	187.6	255.	94.	6809.3	82.518	**	**	**	**
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	10/22/86-07/23/96	5	236.	188.2	258.	96.	6696.2	81.83	**	**	**	**
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/24/76-07/23/96	5	265.	218.8	278.	135.	5673.7	75.324	**	**	**	**
71900p	MERCURY, TOTAL (UG/L AS HG)	03/24/76-07/23/96	5##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**

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Annual Analysis for 1996 - Station TUZI0098

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	10/22/86-06/25/96	3	75.	73.667	76.	70.	10.333	3.215	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/24/76-07/23/96	4	21.25	20.25	27.5	11.	50.083	7.077	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/10/78-07/23/96	4	29.25	28.	41.	12.5	139.5	11.811	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	10/27/82-07/23/96	4	677.5	676.75	682.	670.	28.917	5.377	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/24/76-06/25/96	3	88.	84.	89.	75.	61.	7.81	**	**	**	**
00065	STAGE, STREAM (FEET)	10/27/82-06/25/96	3	0.24	0.233	0.29	0.17	0.004	0.06	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/12/79-07/23/96	4	0.75	1.075	2.5	0.3	1.029	1.014	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/24/76-07/23/96	4	502.	498.75	522.	469.	548.917	23.429	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	03/24/76-07/23/96	4	9.35	9.4	10.	8.9	0.287	0.535	**	**	**	**
00340p	COD, .25N K2CR2O7 MG/L	03/24/76-07/23/96	4 ##	5.	10.75	28.	5.	132.25	11.5	**	**	**	**
00400p	PH (STANDARD UNITS)	03/24/76-07/23/96	4	8.35	8.35	8.4	8.3	0.003	0.058	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	03/24/76-07/23/96	4	8.347	8.347	8.4	8.3	0.003	0.058	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/24/76-07/23/96	4	0.004	0.004	0.005	0.004	0.	0.001	**	**	**	**
00403p	PH, LAB, STANDARD UNITS SU	01/21/81-07/23/96	4	8.1	8.1	8.2	8.	0.007	0.082	**	**	**	**
00403p	CONVERTED PH, LAB, STANDARD UNITS	01/21/81-07/23/96	4	8.1	8.094	8.2	8.	0.007	0.082	**	**	**	**
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/21/81-07/23/96	4	0.008	0.008	0.01	0.006	0.	0.002	**	**	**	**
00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	10/22/86-07/23/96	4	6.	5.5	10.	0.	17.667	4.203	**	**	**	**
00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	10/22/86-07/23/96	4	293.	294.75	318.	275.	344.917	18.572	**	**	**	**
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/24/79-07/23/96	4	7.5	6.75	9.	3.	6.917	2.63	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/16/81-07/23/96	4	0.02	0.02	0.03	0.01	0.	0.008	**	**	**	**
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/24/76-07/23/96	4 ##	0.1	0.4	1.3	0.1	0.36	0.6	**	**	**	**
00630p	NITRITE PLUS NITRATE, TOTAL I DET. (MG/L AS N)	03/24/76-07/23/96	4	0.03	0.053	0.14	0.01	0.003	0.059	**	**	**	**
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	03/24/76-07/23/96	4	0.02	0.018	0.02	0.01	0.	0.005	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	03/24/76-07/23/96	4	47.	47.	48.	46.	0.667	0.816	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/24/76-07/23/96	4	23.	22.75	24.	21.	2.25	1.5	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	03/24/76-07/23/96	4	23.5	23.25	25.	21.	2.917	1.708	**	**	**	**

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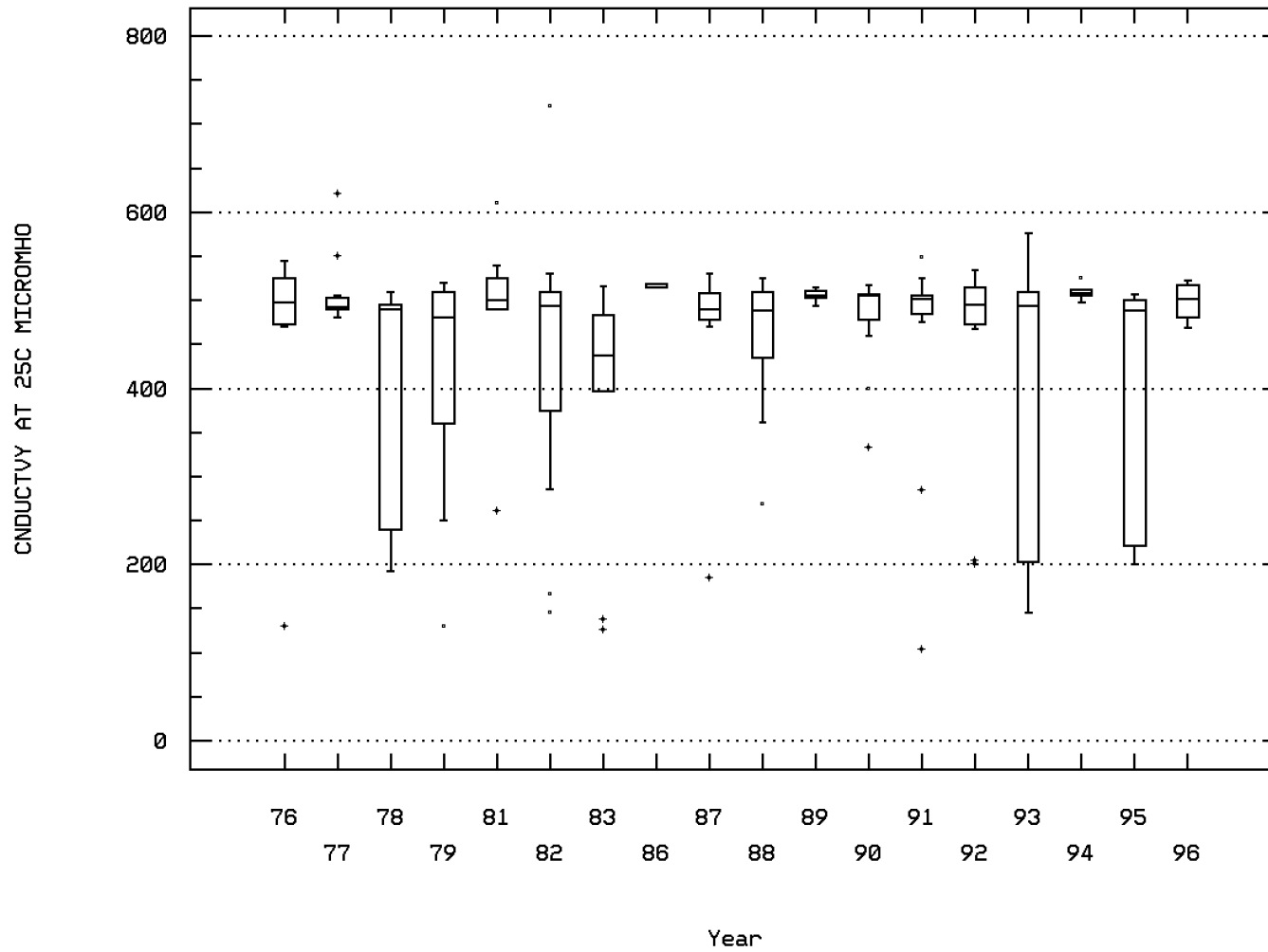
Annual Analysis for 1996 - Station TUZI0098

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00935p POTASSIUM, DISSOLVED (MG/L AS K)	03/24/76-07/23/96	4	2.05	2.025	2.1	1.9	0.009	0.096	**	**	**	**
00940p CHLORIDE,TOTAL IN WATER MG/L	03/24/76-07/23/96	4	12.5	12.5	13.	12.	0.333	0.577	**	**	**	**
00945p SULFATE, TOTAL (MG/L AS SO4)	03/24/76-07/23/96	4	8.	8.	8.	8.	0.	0.	**	**	**	**
00950p FLUORIDE, DISSOLVED (MG/L AS F)	03/24/76-07/23/96	4	0.3	0.275	0.3	0.2	0.002	0.05	**	**	**	**
01000 ARSENIC, DISSOLVED (UG/L AS AS)	10/22/86-07/23/96	4	17.5	17.75	19.	17.	0.917	0.957	**	**	**	**
01002p ARSENIC, TOTAL (UG/L AS AS)	03/24/76-07/23/96	4	18.5	17.75	19.	15.	3.583	1.893	**	**	**	**
01005 BARIUM, DISSOLVED (UG/L AS BA)	10/22/86-07/23/96	4	165.	160.	170.	140.	200.	14.142	**	**	**	**
01022 BORON, TOTAL (UG/L AS B)	03/24/76-07/23/96	2	175.	175.	180.	170.	50.	7.071	**	**	**	**
01025 CADMIUM, DISSOLVED (UG/L AS CD)	03/24/76-07/23/96	4 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01027p CADMIUM, TOTAL (UG/L AS CD)	03/24/76-07/23/96	4 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01030 CHROMIUM, DISSOLVED (UG/L AS CR)	01/21/81-07/23/96	4 ##	0.75	0.75	1.	0.5	0.083	0.289	**	**	**	**
01034p CHROMIUM, TOTAL (UG/L AS CR)	03/24/76-07/23/96	4	1.	0.875	1.	0.5	0.063	0.25	**	**	**	**
01040 COPPER, DISSOLVED (UG/L AS CU)	10/05/83-07/23/96	4 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01042p COPPER, TOTAL (UG/L AS CU)	03/24/76-07/23/96	4	2.	3.375	9.	0.5	15.229	3.902	**	**	**	**
01045p IRON, TOTAL (UG/L AS FE)	03/24/76-07/23/96	4	55.	80.	170.	40.	3666.667	60.553	**	**	**	**
01046p IRON, DISSOLVED (UG/L AS FE)	03/24/76-07/23/96	4	6.	8.875	22.	1.5	81.729	9.04	**	**	**	**
01049p LEAD, DISSOLVED (UG/L AS PB)	01/21/81-07/23/96	4 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01051p LEAD, TOTAL (UG/L AS PB)	03/24/76-07/23/96	4 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01055p MANGANESE, TOTAL (UG/L AS MN)	03/24/76-07/23/96	4 ##	7.5	7.5	10.	5.	8.333	2.887	**	**	**	**
01056p MANGANESE, DISSOLVED (UG/L AS MN)	03/24/76-07/23/96	4	5.5	5.25	6.	4.	0.917	0.957	**	**	**	**
01075 SILVER, DISSOLVED (UG/L AS AG)	10/22/86-07/23/96	4 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01090 ZINC, DISSOLVED (UG/L AS ZN)	01/21/81-07/23/96	4 ##	2.75	3.25	6.	1.5	4.75	2.179	**	**	**	**
01092p ZINC, TOTAL (UG/L AS ZN)	03/24/76-07/23/96	4 ##	5.	6.25	10.	5.	6.25	2.5	**	**	**	**
01145 SELENIUM, DISSOLVED (UG/L AS SE)	10/22/86-07/23/96	4 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01147p SELENIUM, TOTAL (UG/L AS SE)	03/24/76-07/23/96	4 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39036 ALKALINITY,FILTERED SAMPLE AS CaCO3 MG/L	10/19/88-06/25/96	3	256.	252.667	259.	243.	72.333	8.505	**	**	**	**
39086 ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CaCO3,MG/L	10/22/86-07/23/96	4	250.	250.5	261.	241.	109.667	10.472	**	**	**	**
70300p RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/24/76-07/23/96	4	266.	265.75	283.	248.	300.25	17.328	**	**	**	**
71900p MERCURY, TOTAL (UG/L AS HG)	03/24/76-07/23/96	4 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station: TUZI0098 Parameter Code: 00095

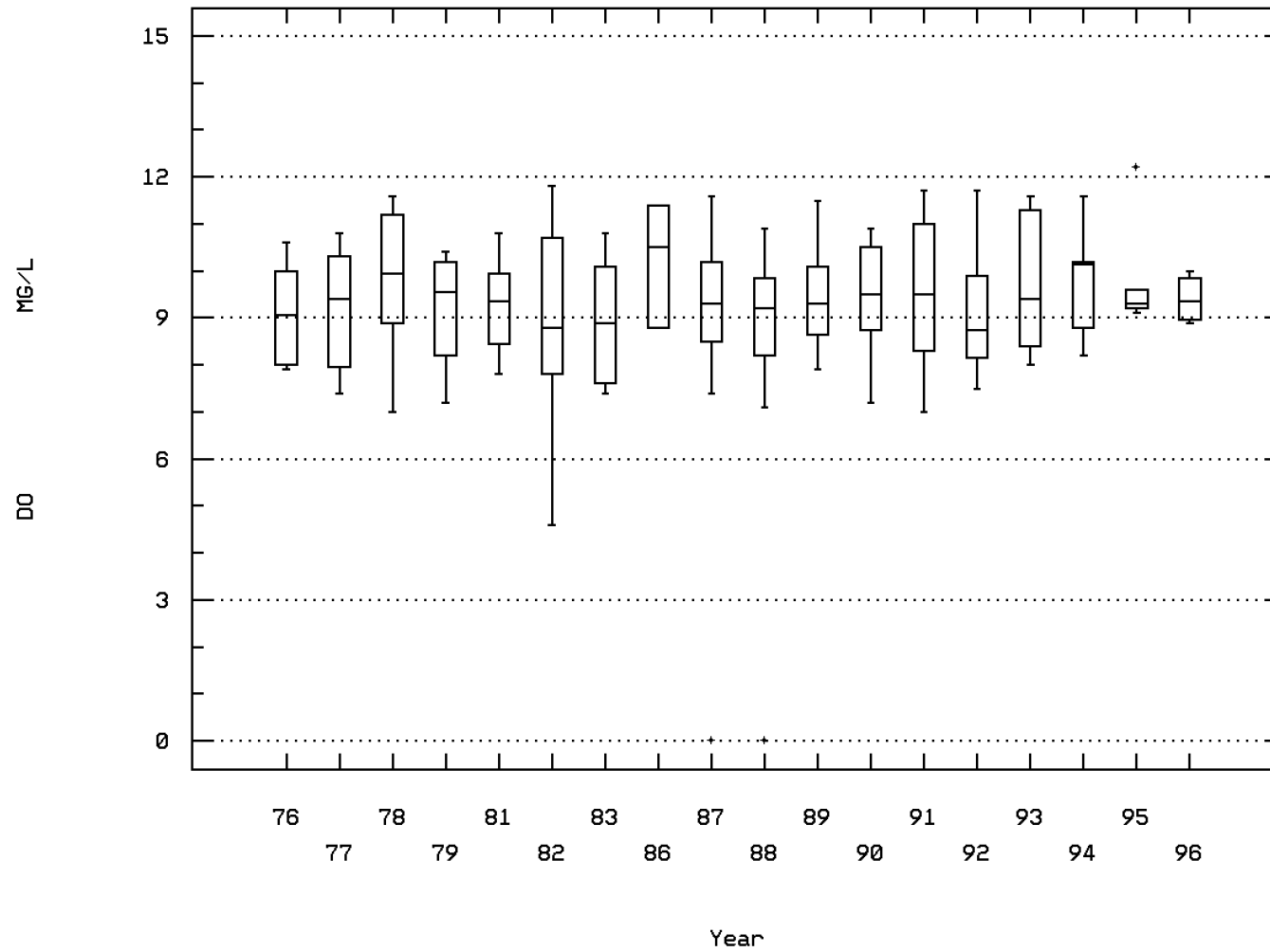
SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 00300

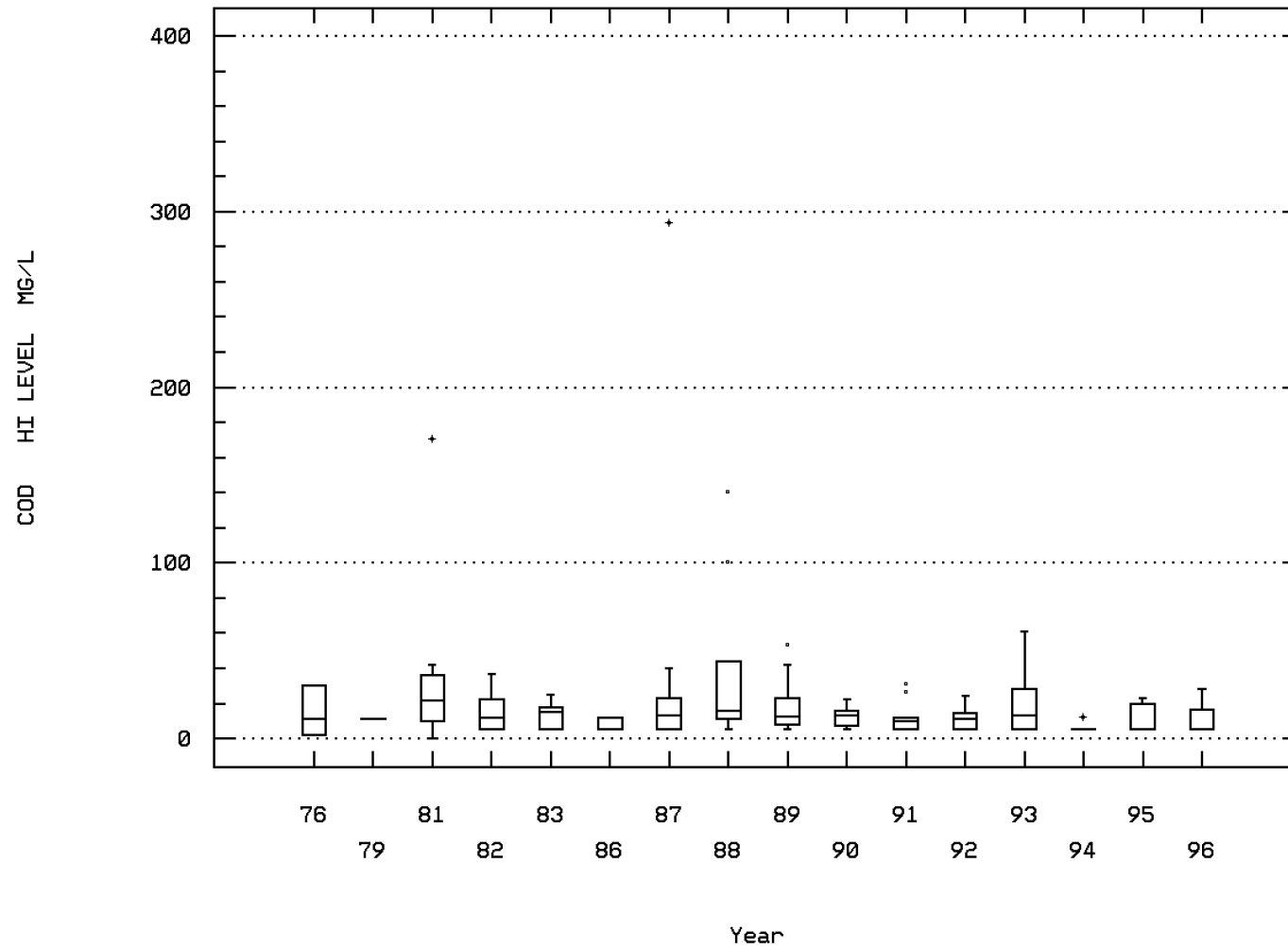
OXYGEN, DISSOLVED



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 00340

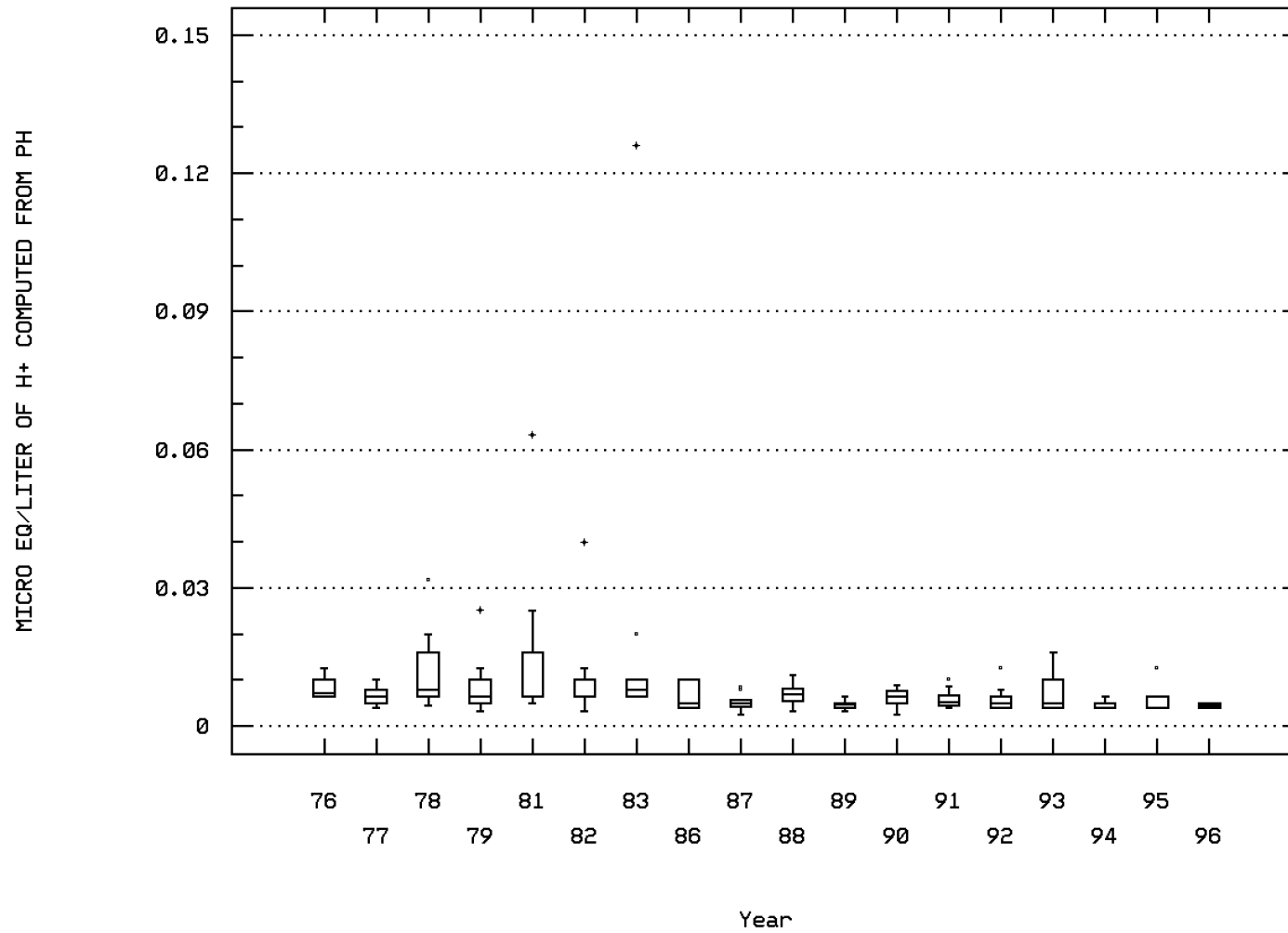
COD, .25N K2CR207



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 00400

MICRO EQ/LITER OF H+ COMPUTED FROM PH

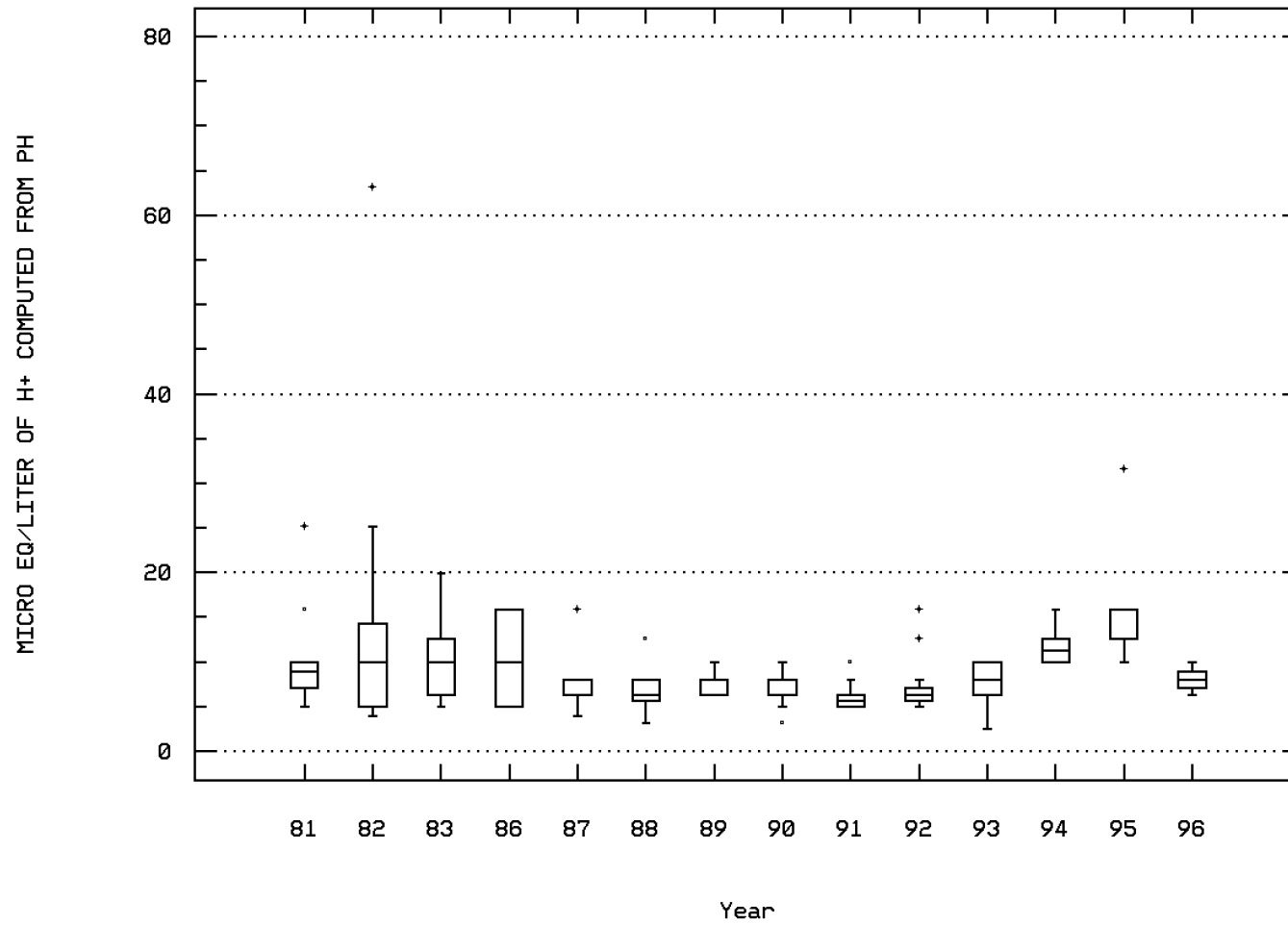


VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 00403

MICRO EQ/LITER OF H+ COMPUTED FROM PH

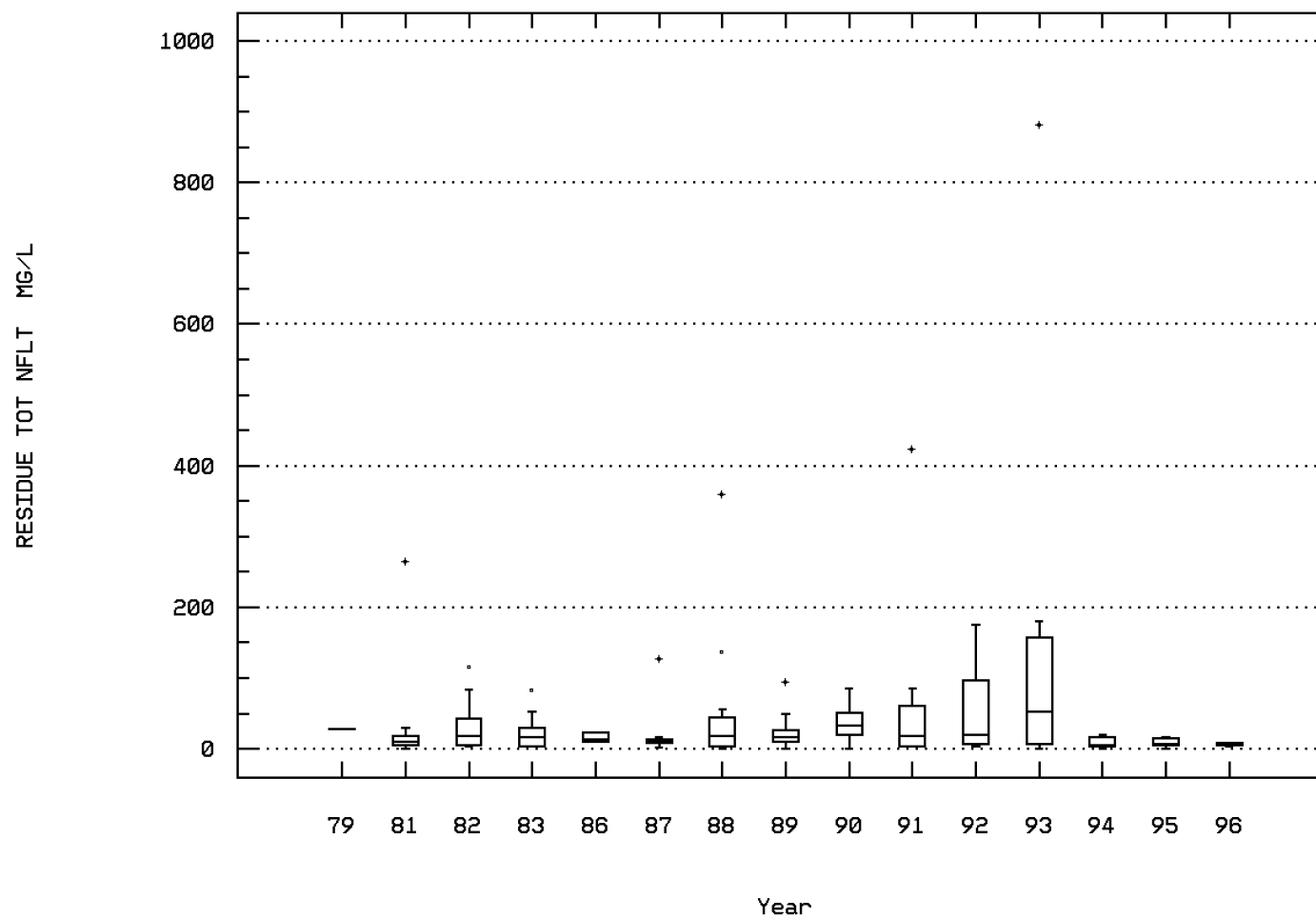
(X 0.001)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 00530

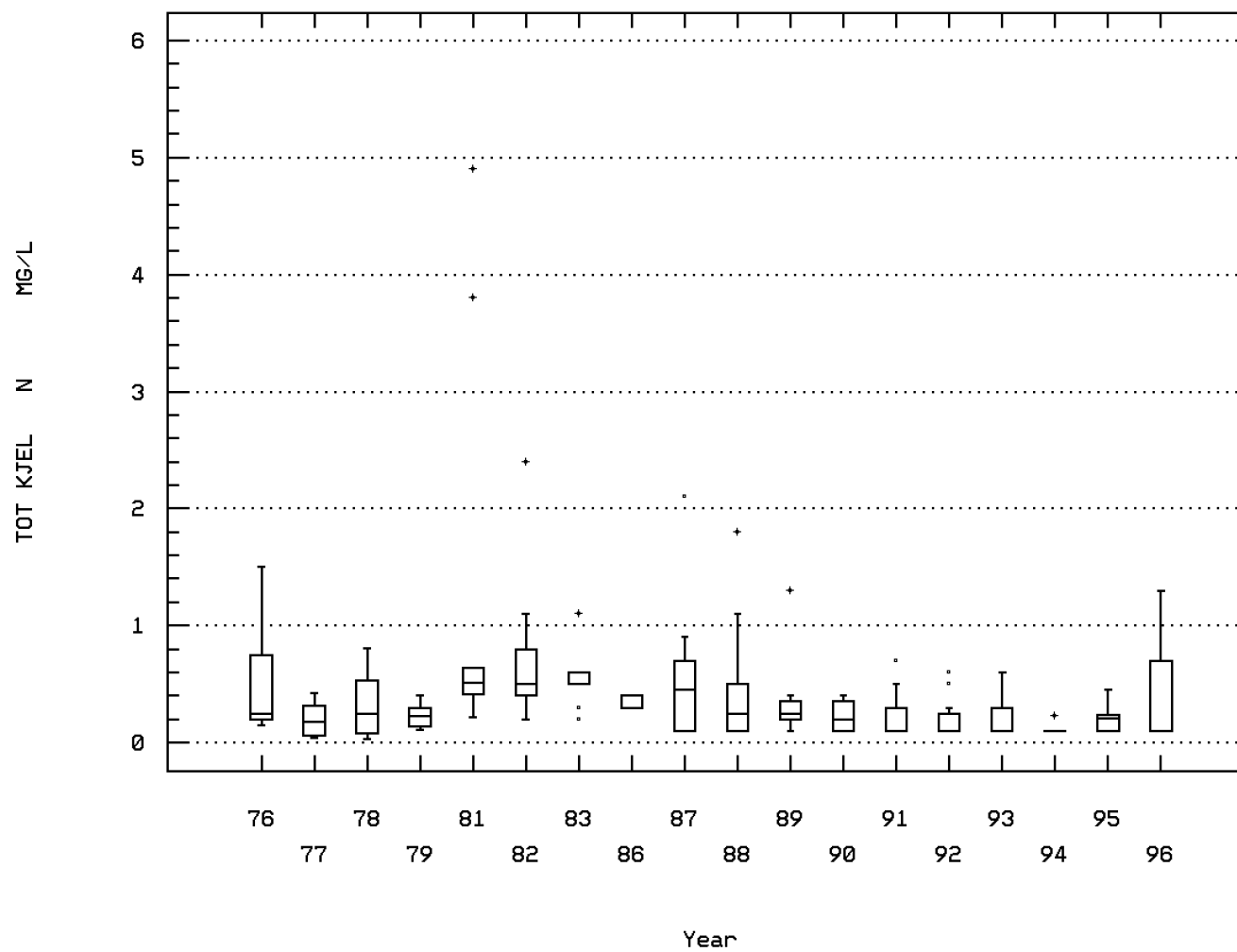
RESIDUE, TOTAL NONFILTRABLE (MG/L)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 00625

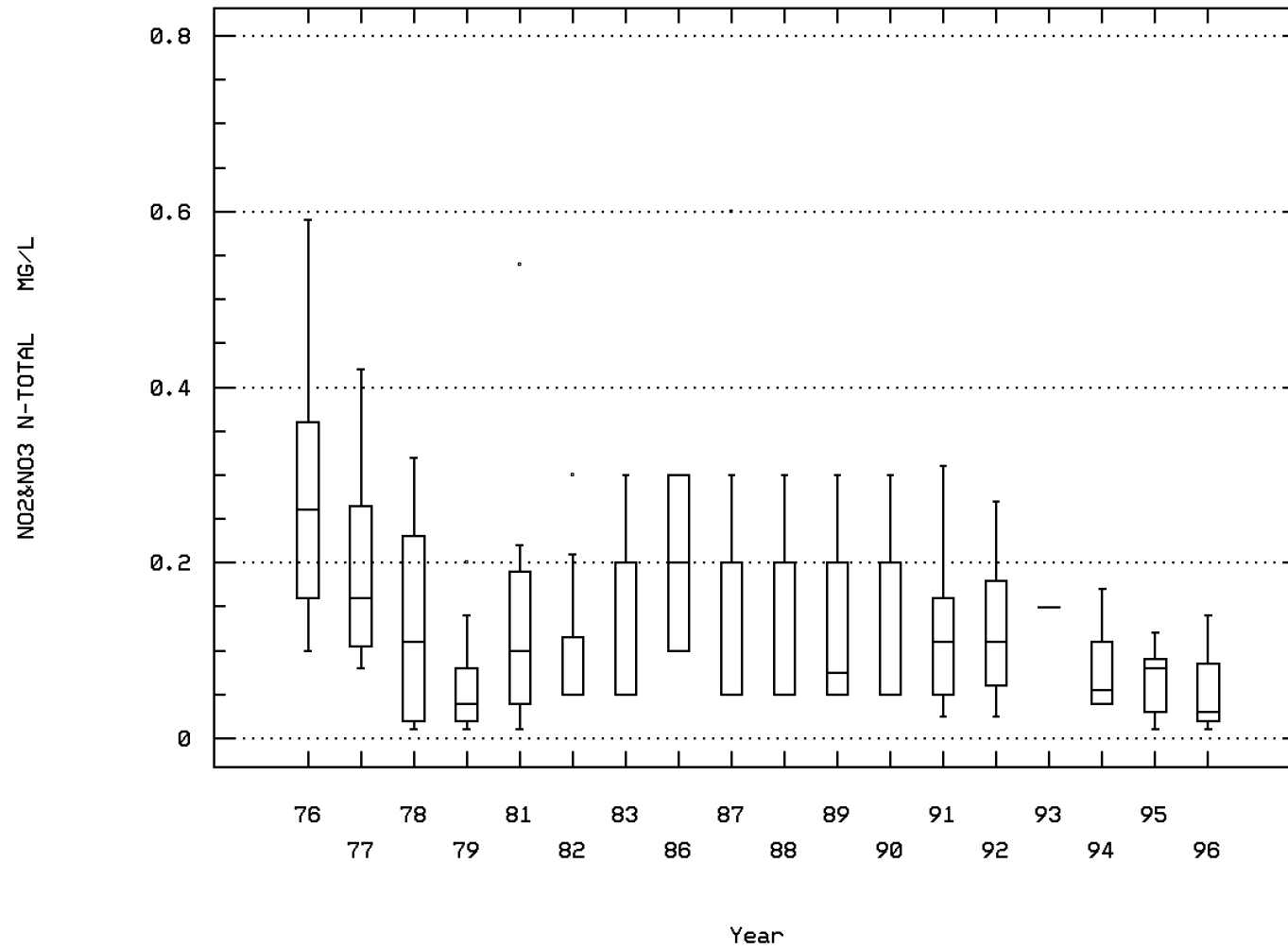
NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 00630

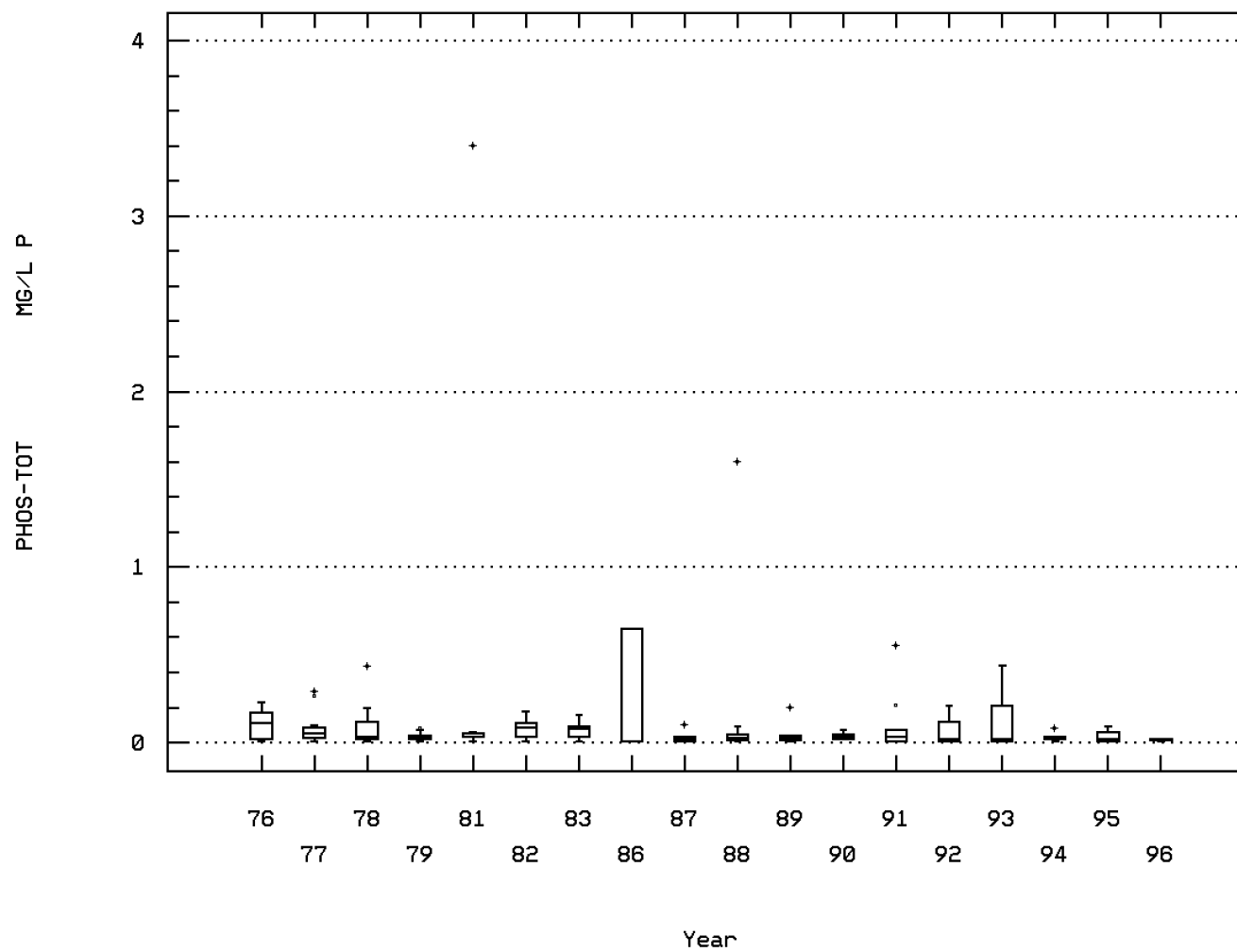
NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 00665

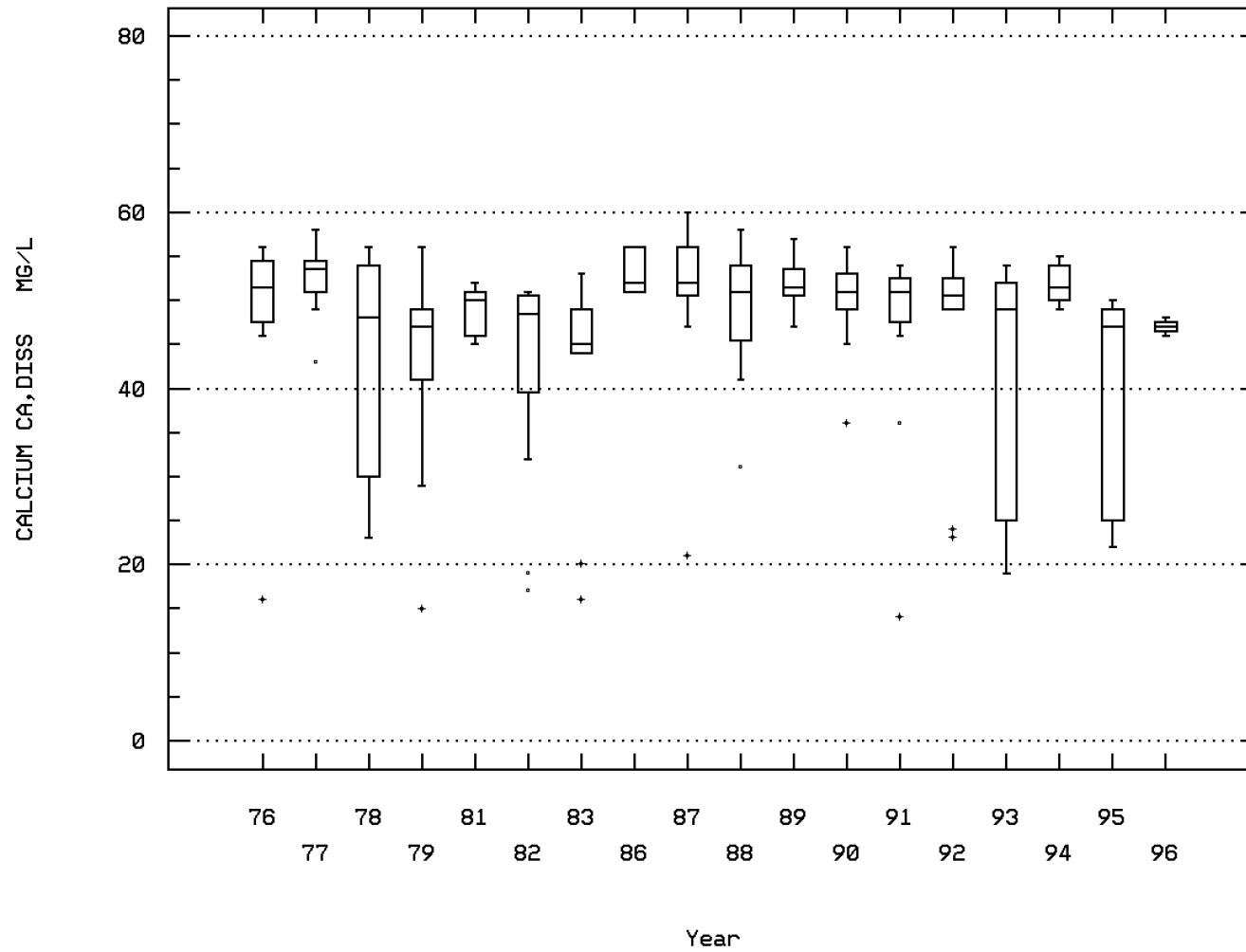
PHOSPHORUS, TOTAL (MG/L AS P)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 00915

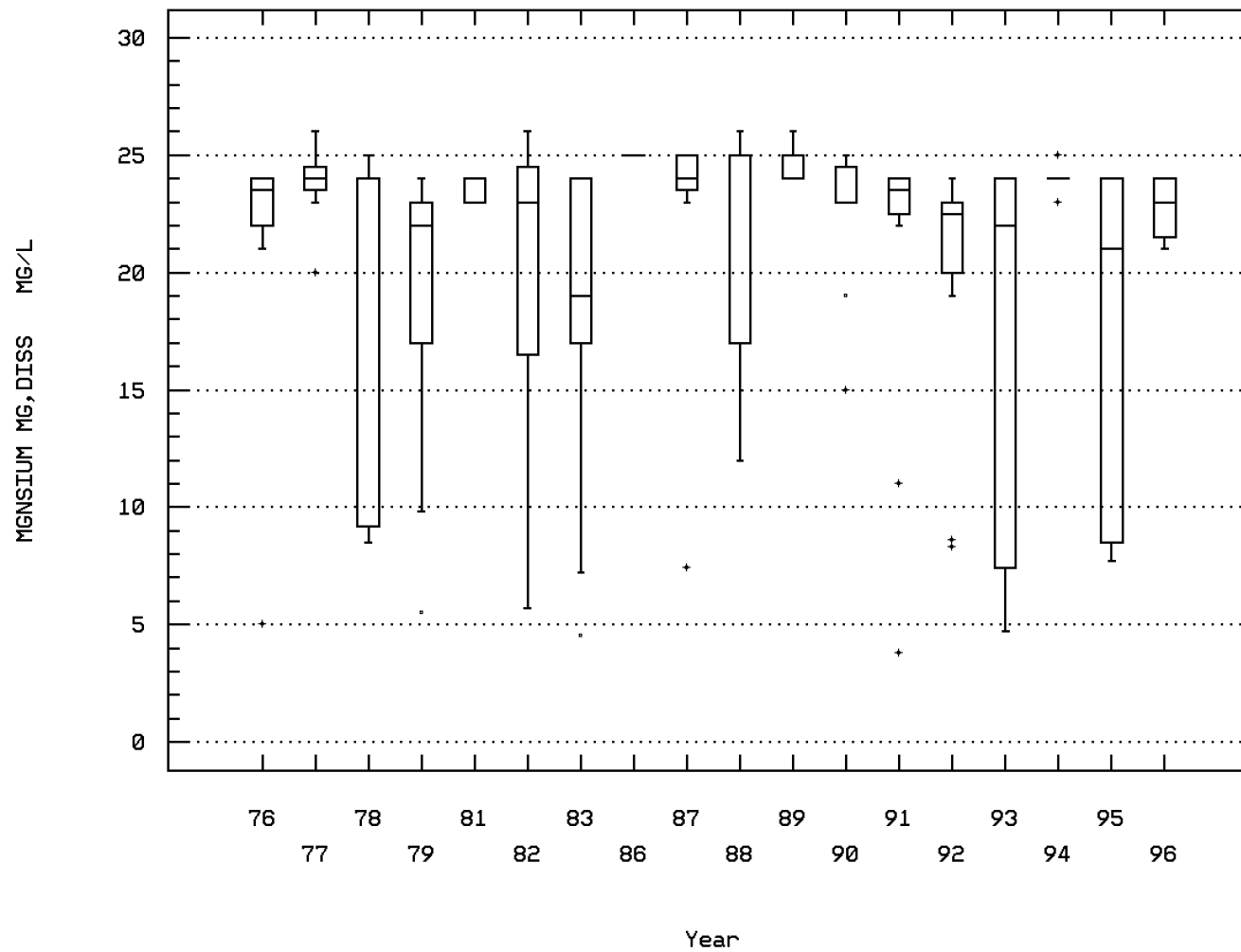
CALCIUM, DISSOLVED (MG/L AS CA)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 00925

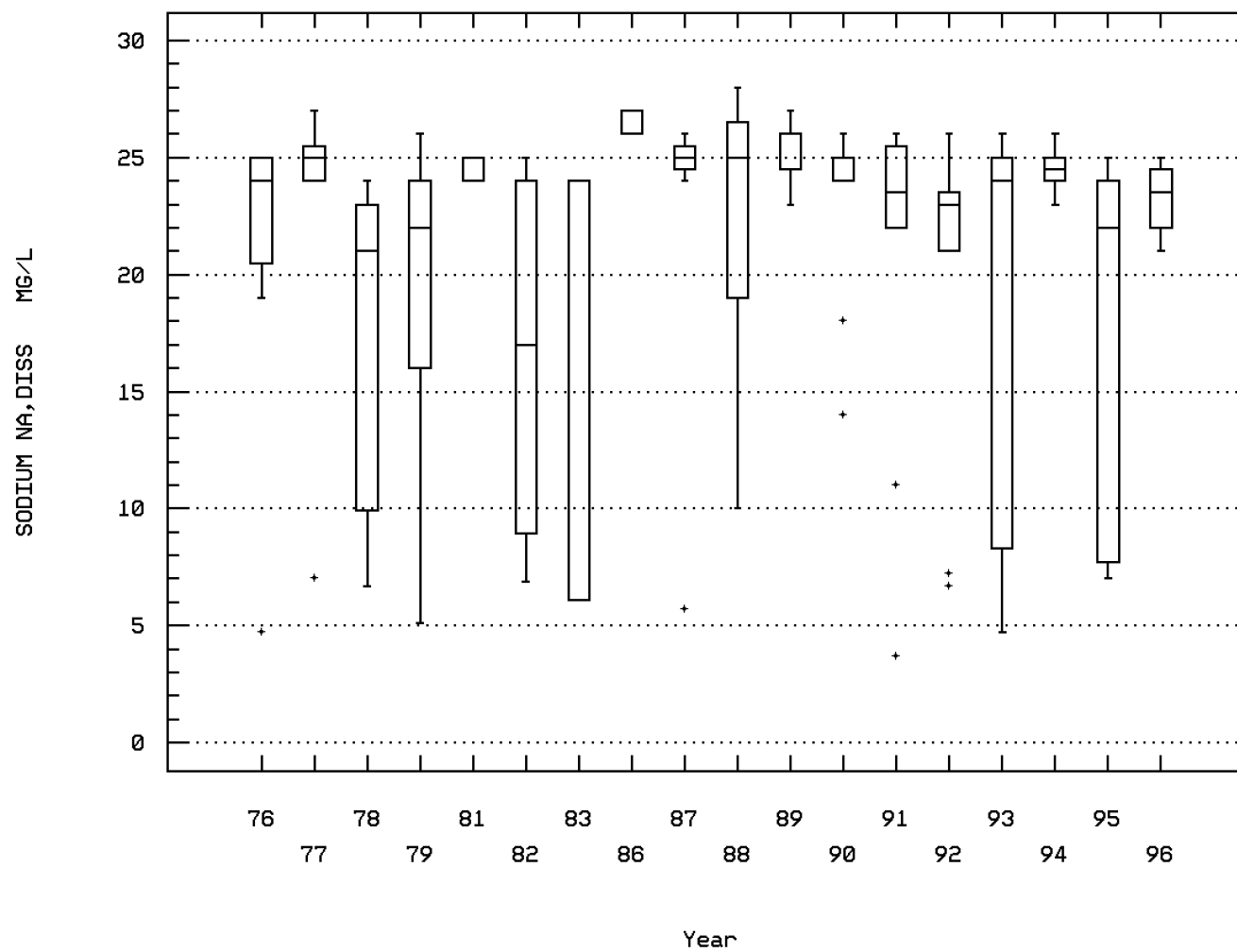
MAGNESIUM, DISSOLVED (MG/L AS MG)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 00930

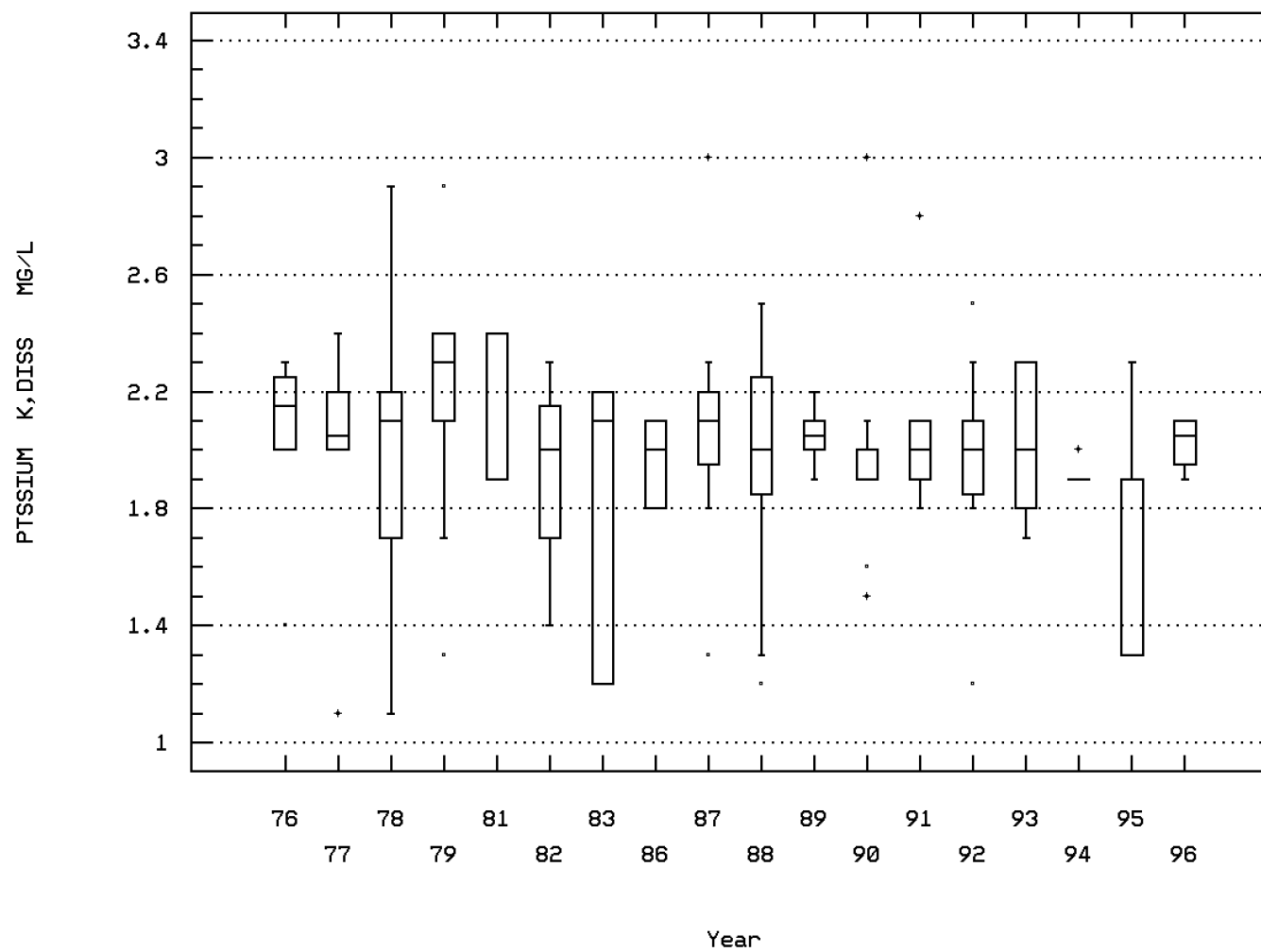
SODIUM, DISSOLVED (MG/L AS NA)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 00935

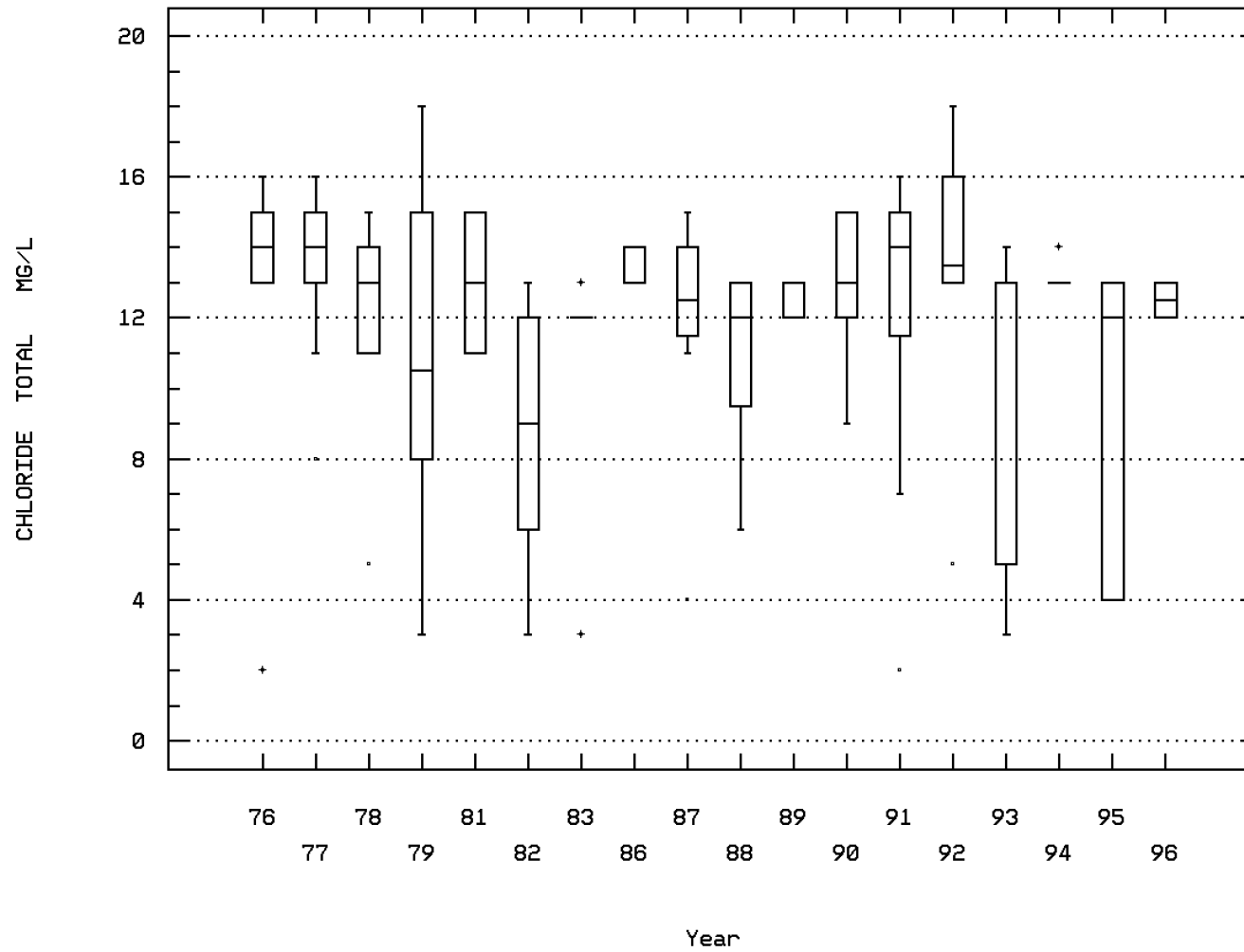
POTASSIUM, DISSOLVED (MG/L AS K)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 00940

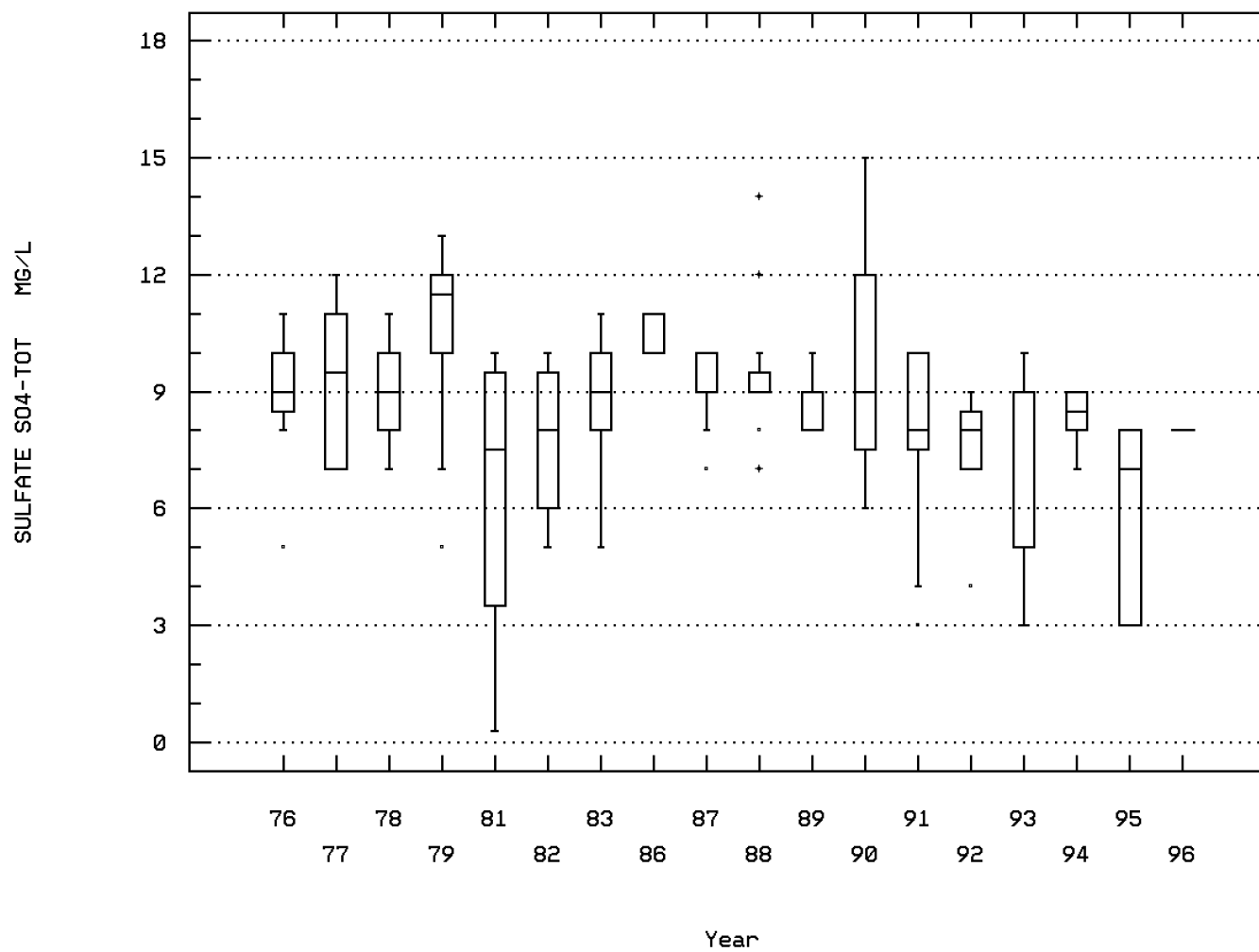
CHLORIDE, TOTAL IN WATER



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 00945

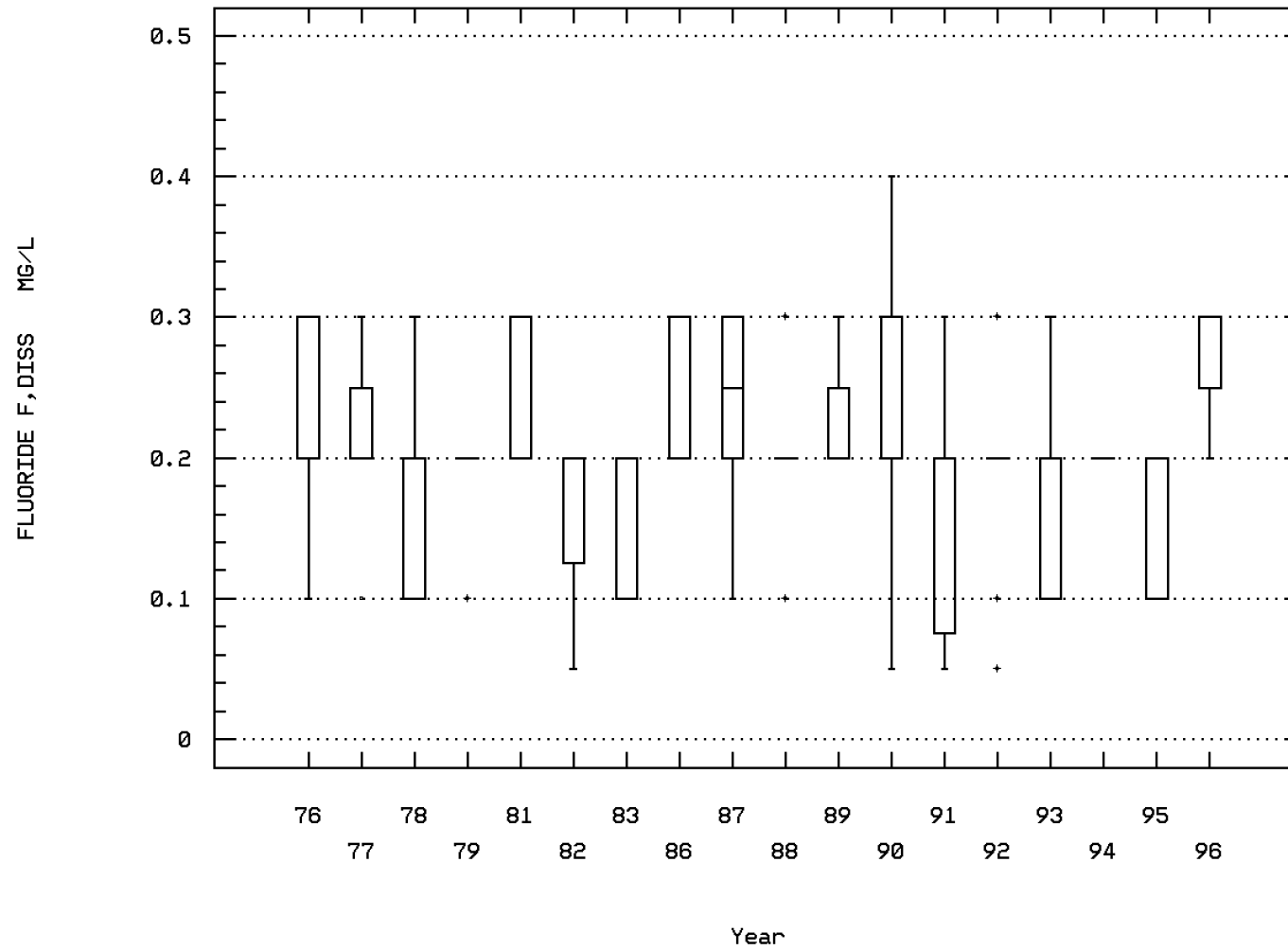
SULFATE, TOTAL (MG/L AS SO4)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 00950

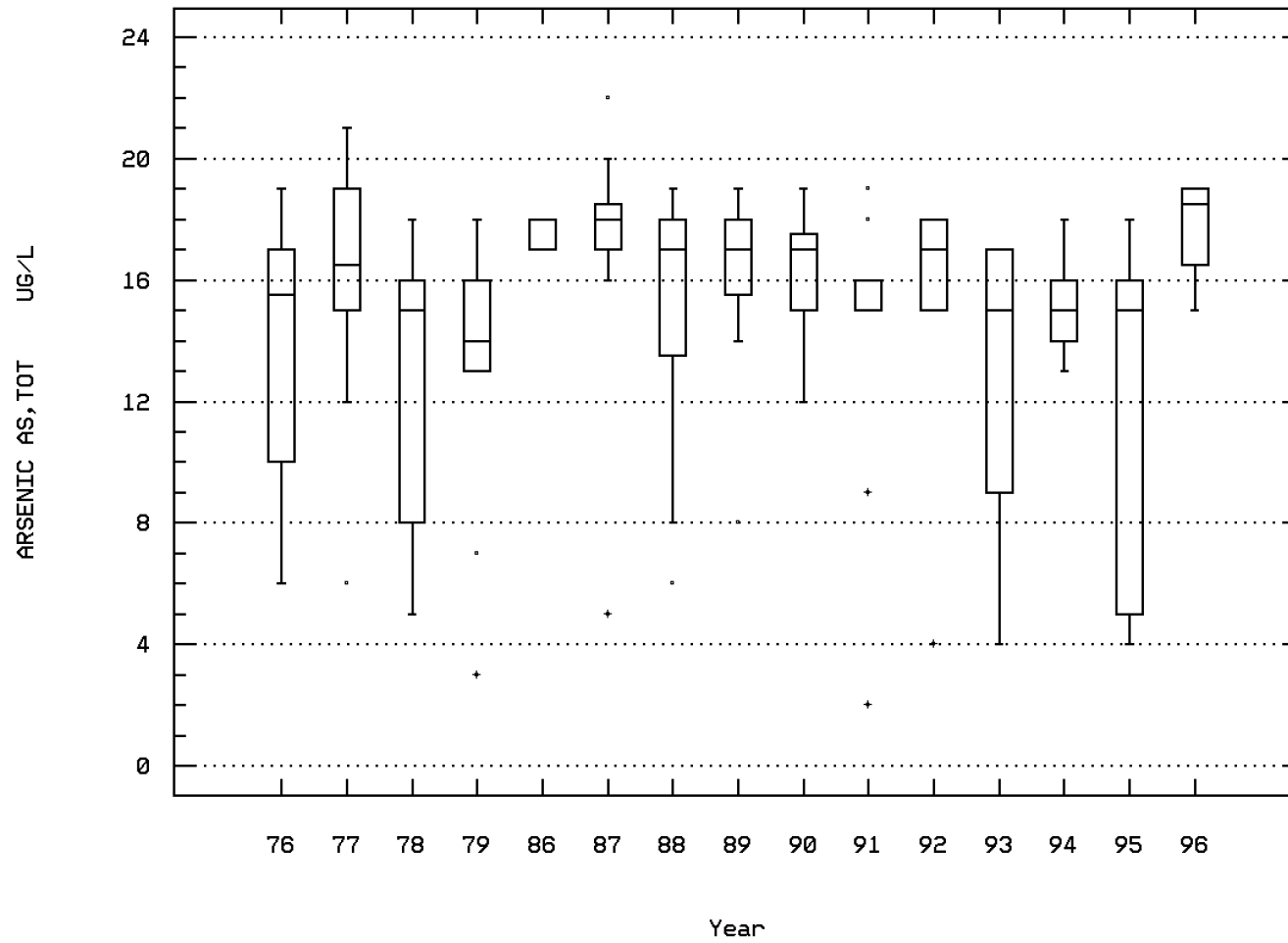
FLUORIDE, DISSOLVED (MG/L AS F)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 01002

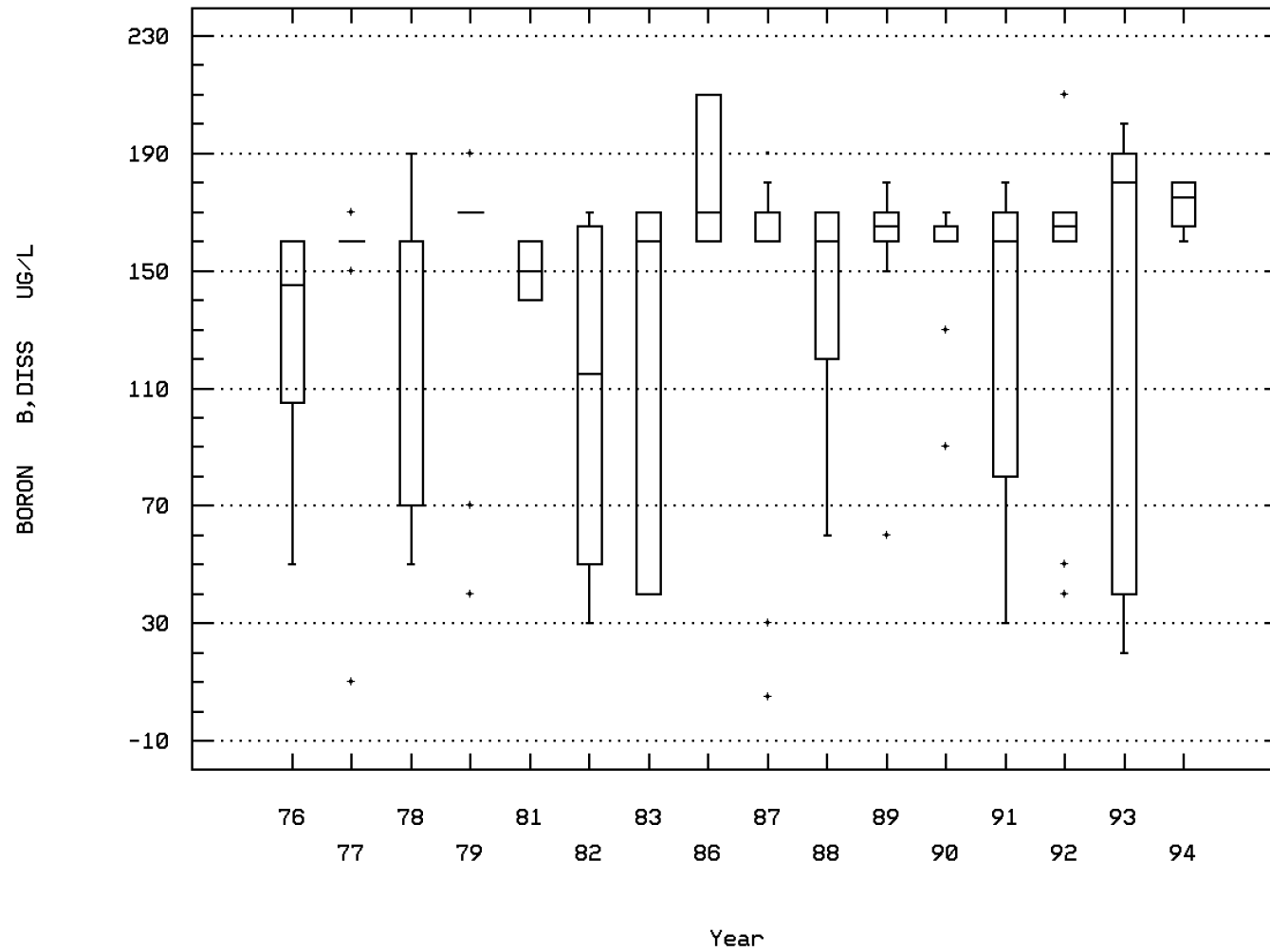
ARSENIC, TOTAL (UG/L AS AS)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 01020

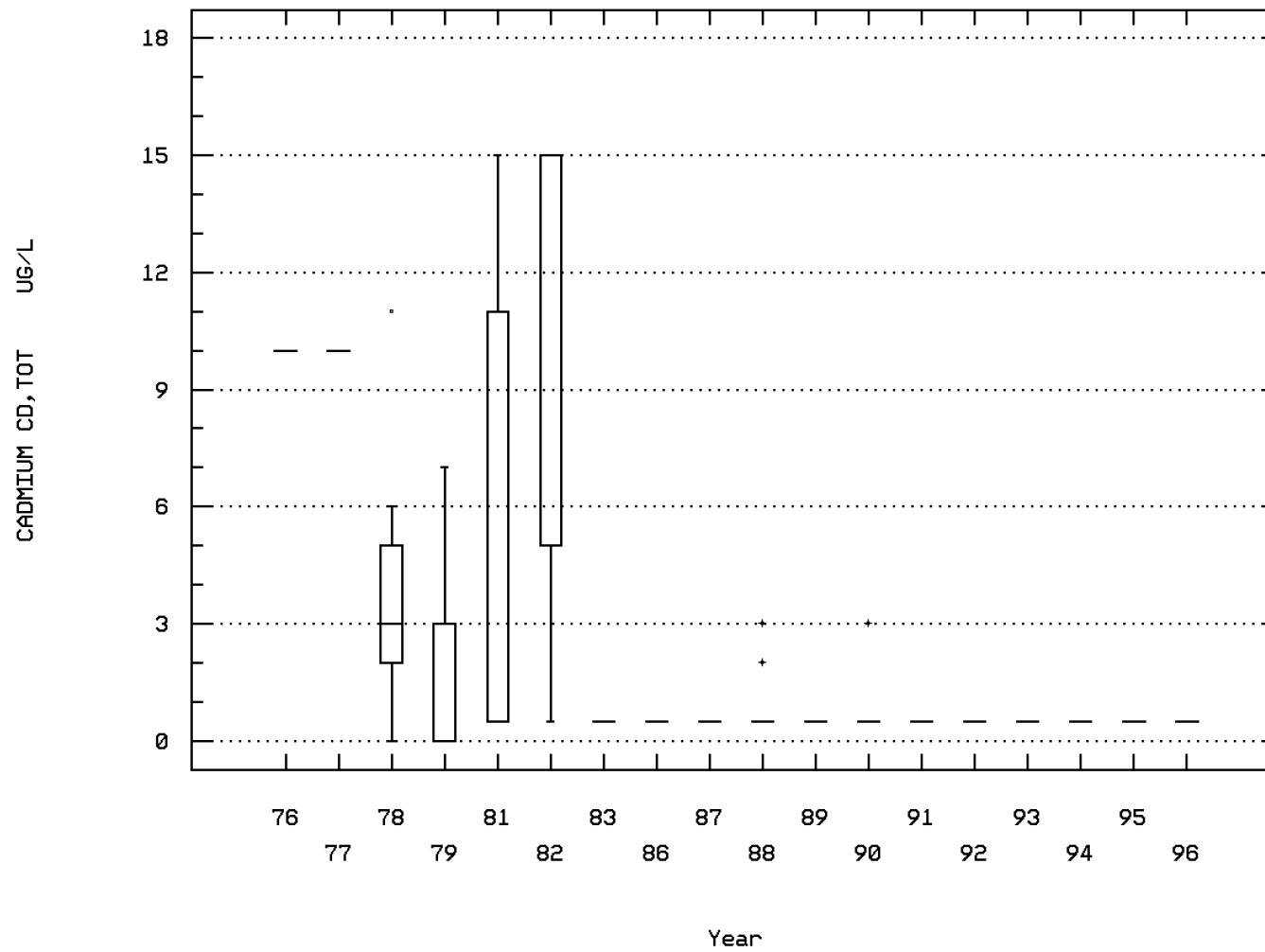
BORON, DISSOLVED (UG/L AS B)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 01027

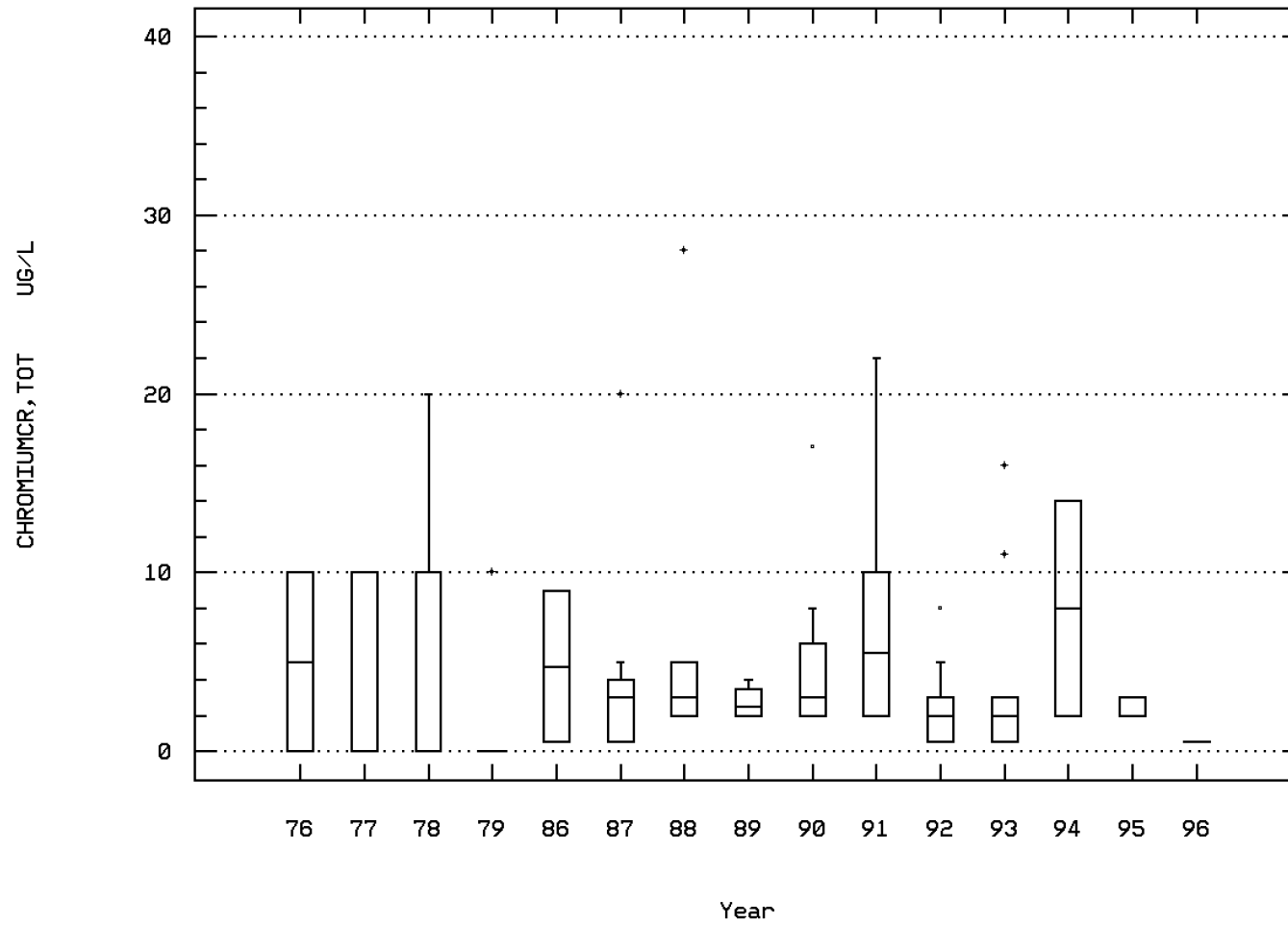
CADMIUM, TOTAL (UG/L AS CD)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 01034

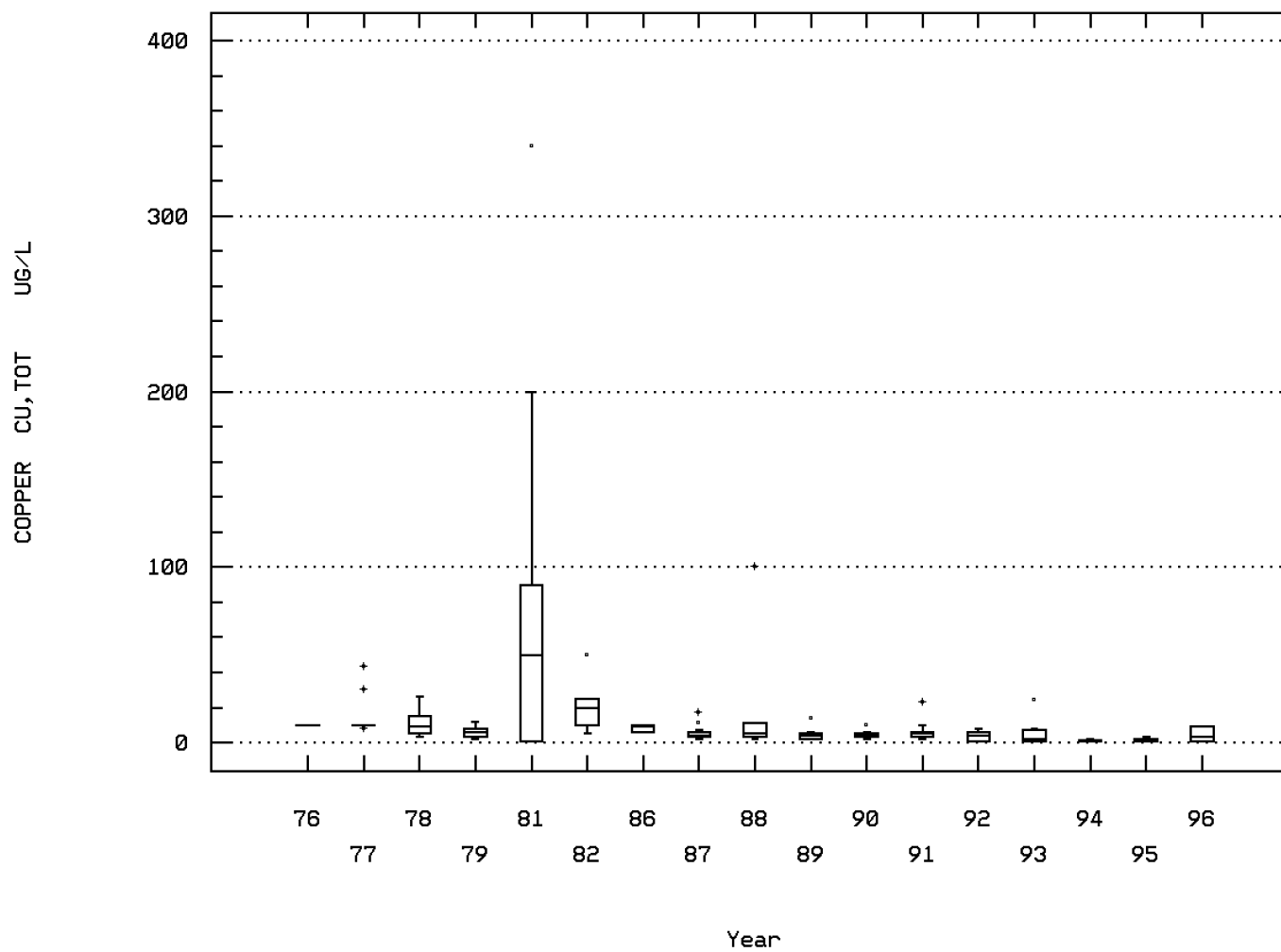
CHROMIUM, TOTAL (UG/L AS CR)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 01042

COPPER, TOTAL (UG/L AS CU)

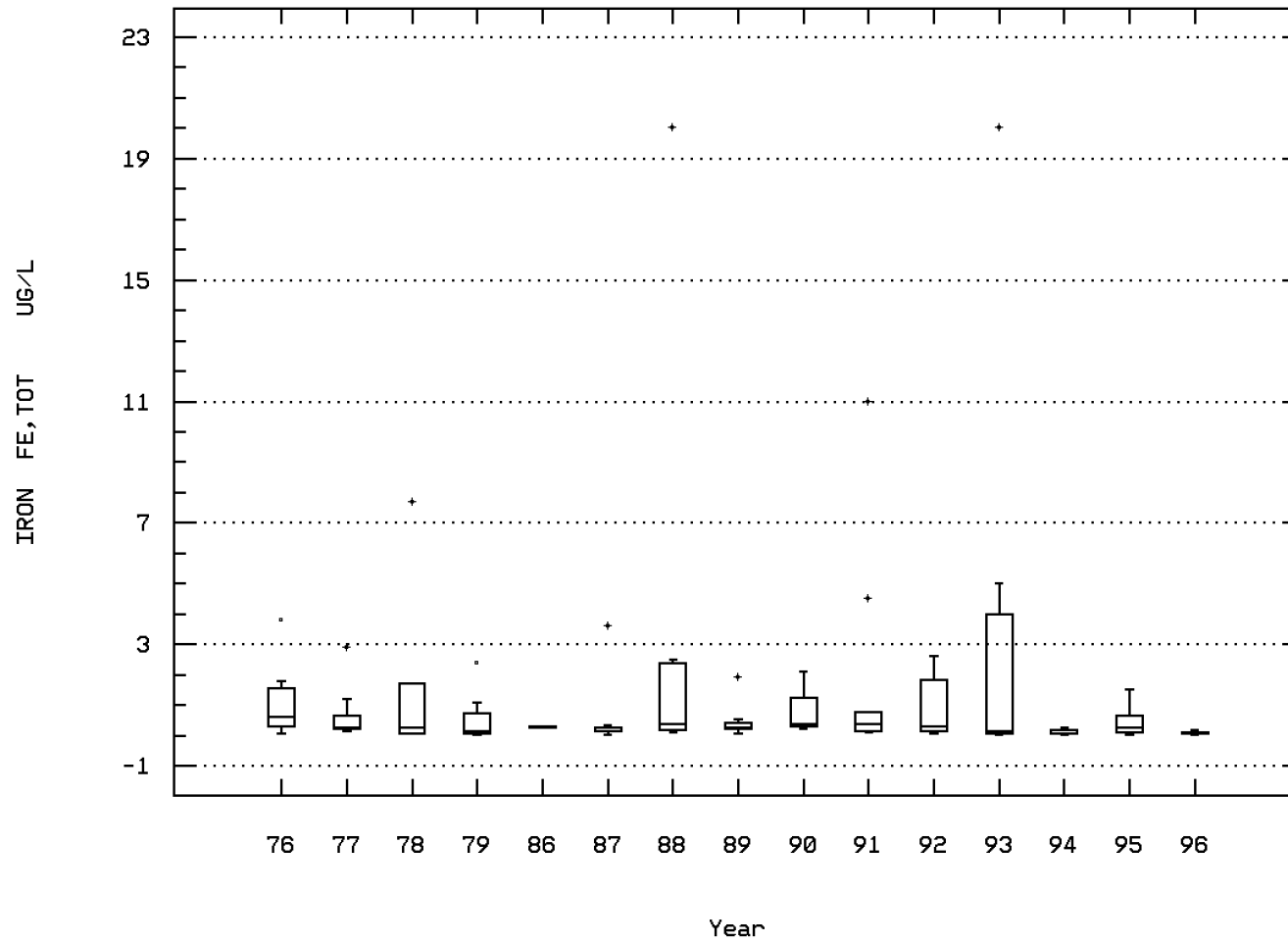


VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 01045

IRON, TOTAL (UG/L AS FE)

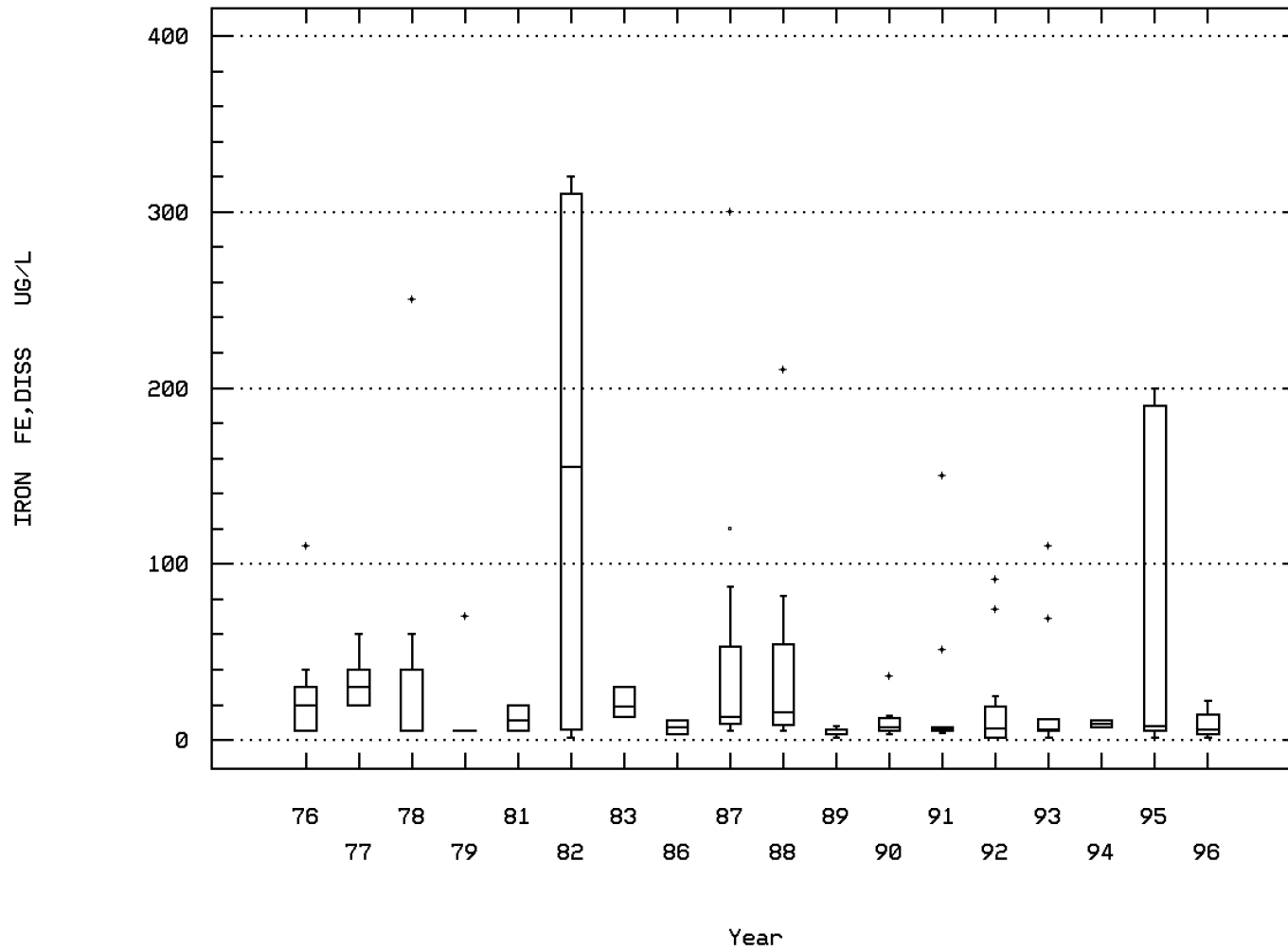
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VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 01046

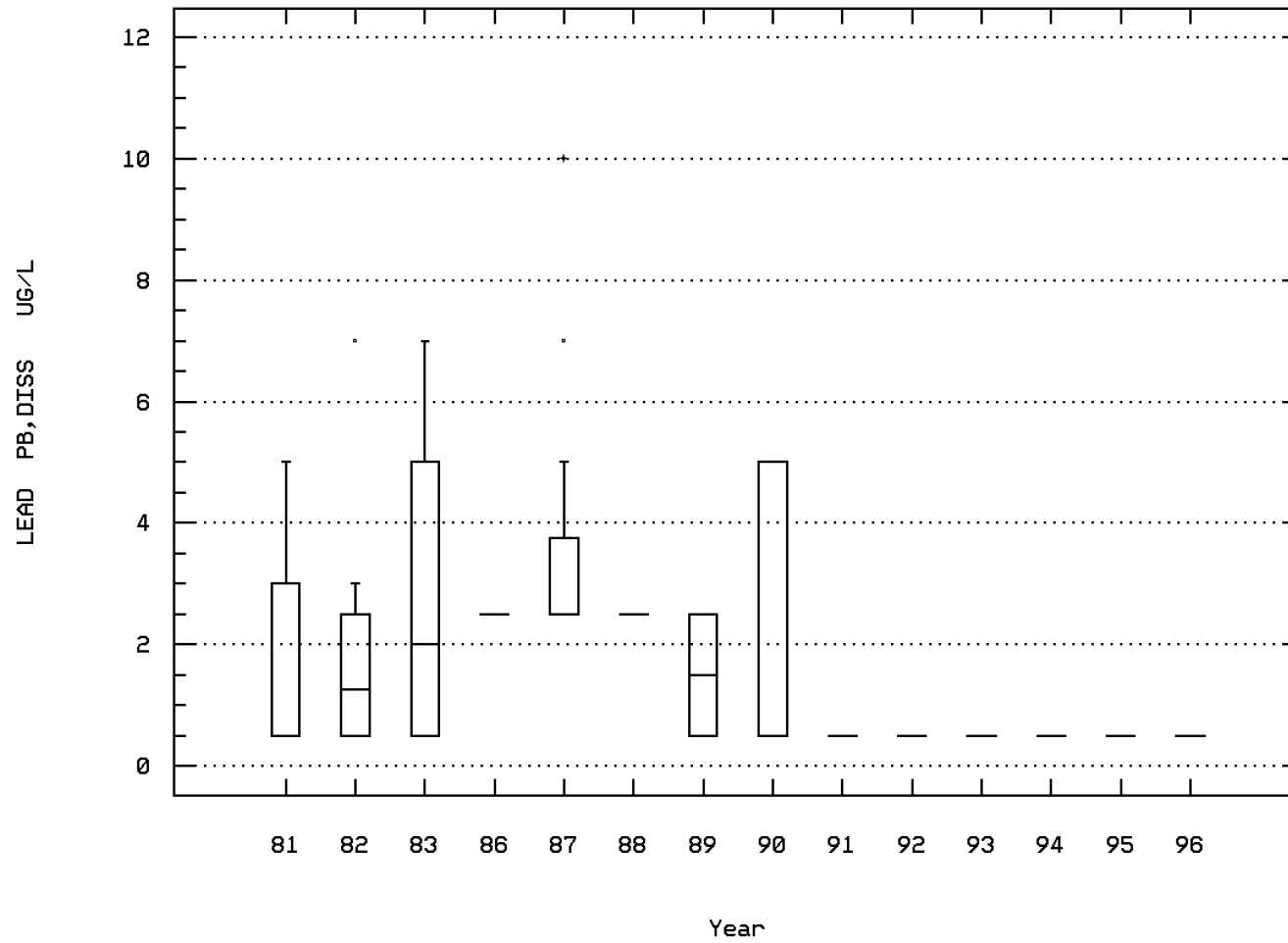
IRON, DISSOLVED (UG/L AS FE)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 01049

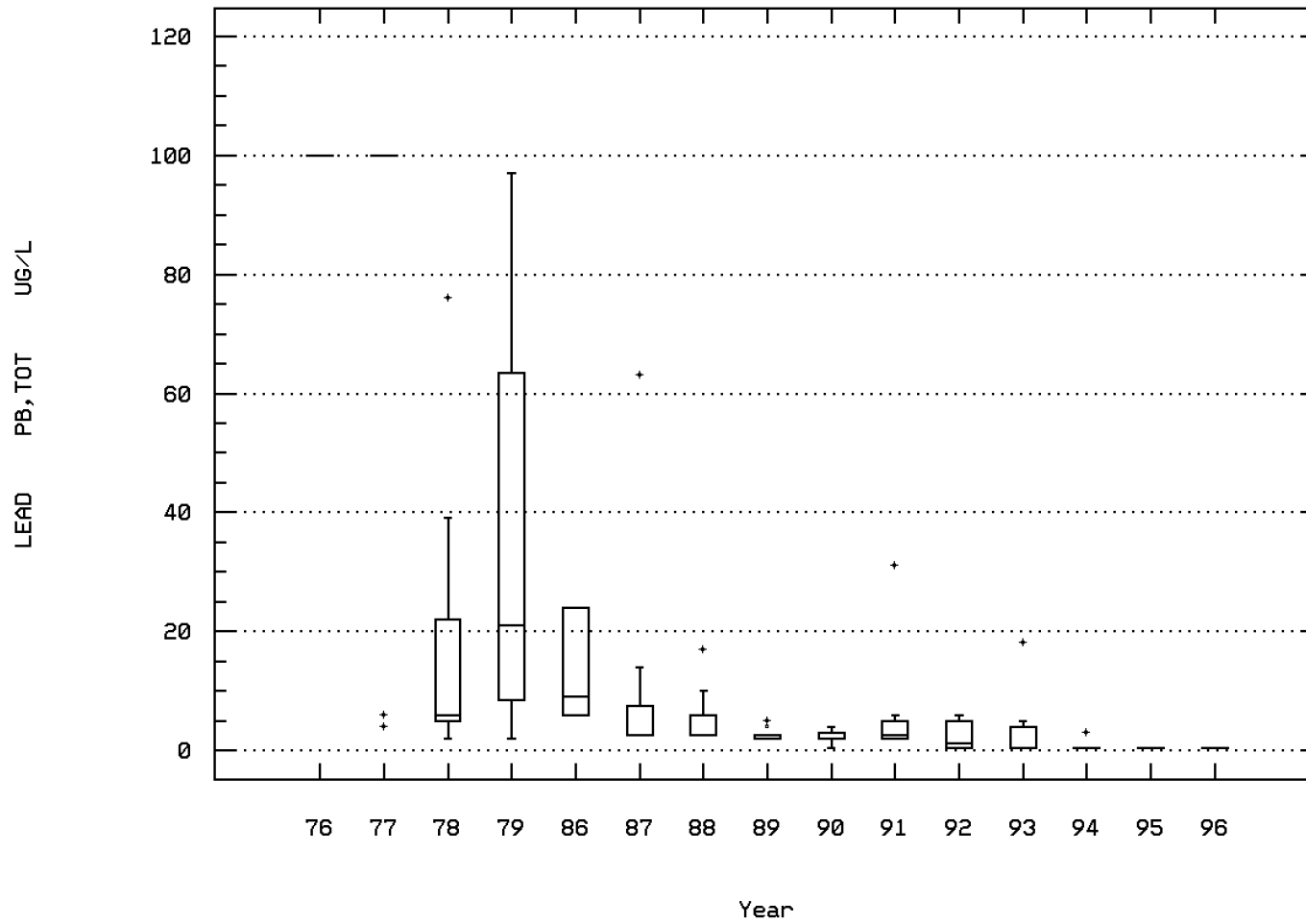
LEAD, DISSOLVED (UG/L AS PB)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 01051

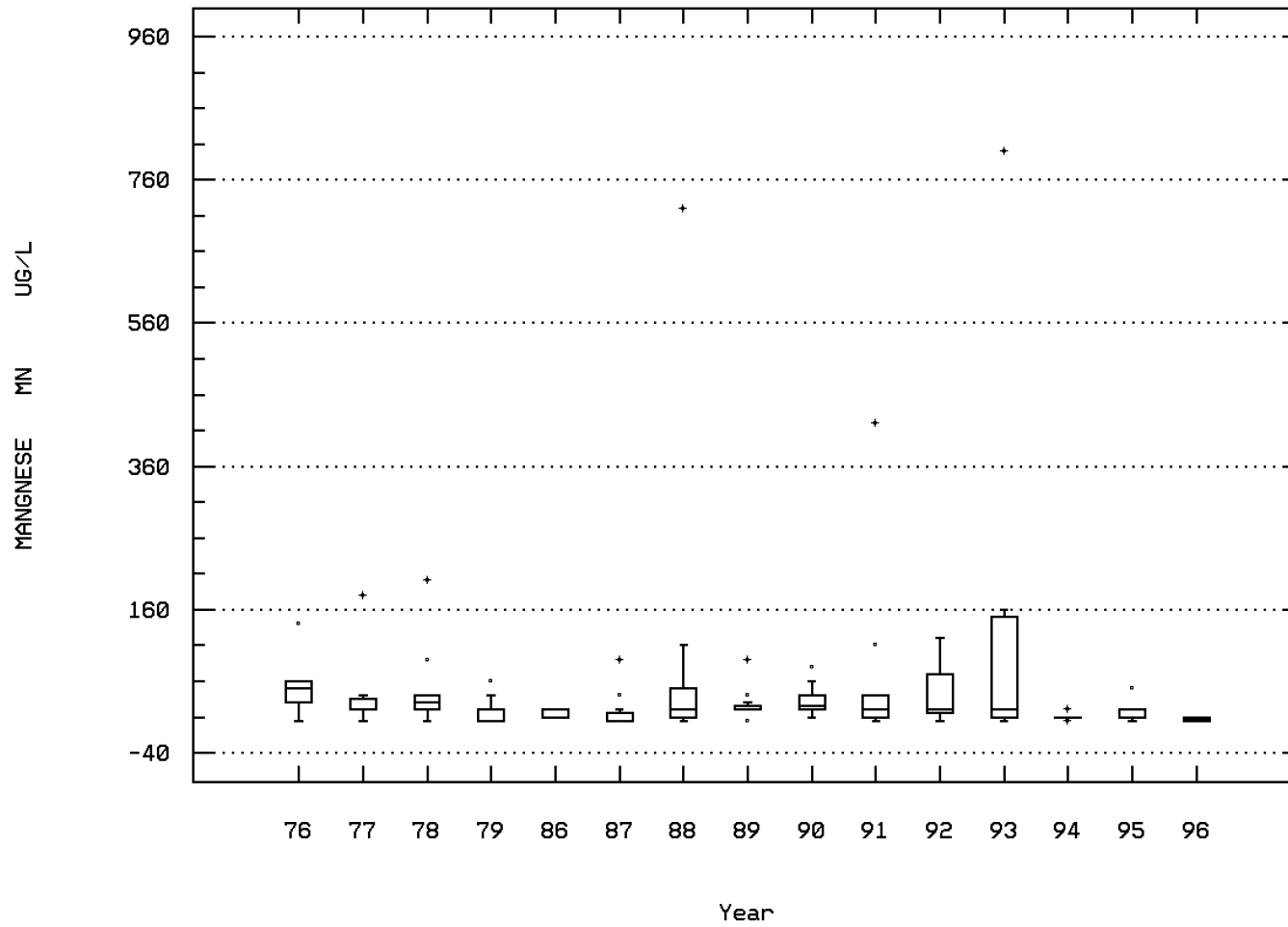
LEAD, TOTAL (UG/L AS PB)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 01055

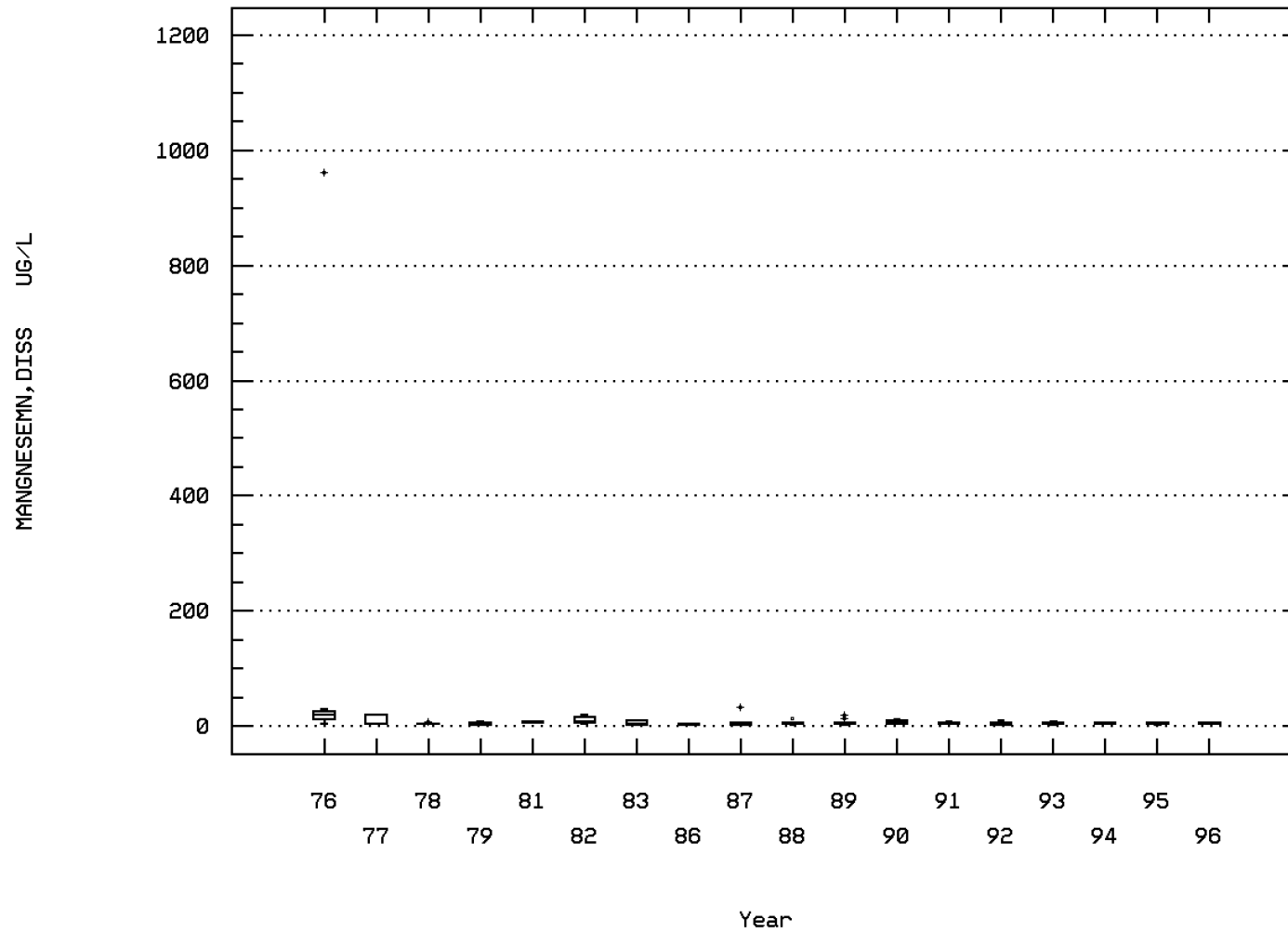
MANGANESE, TOTAL (UG/L AS MN)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 01056

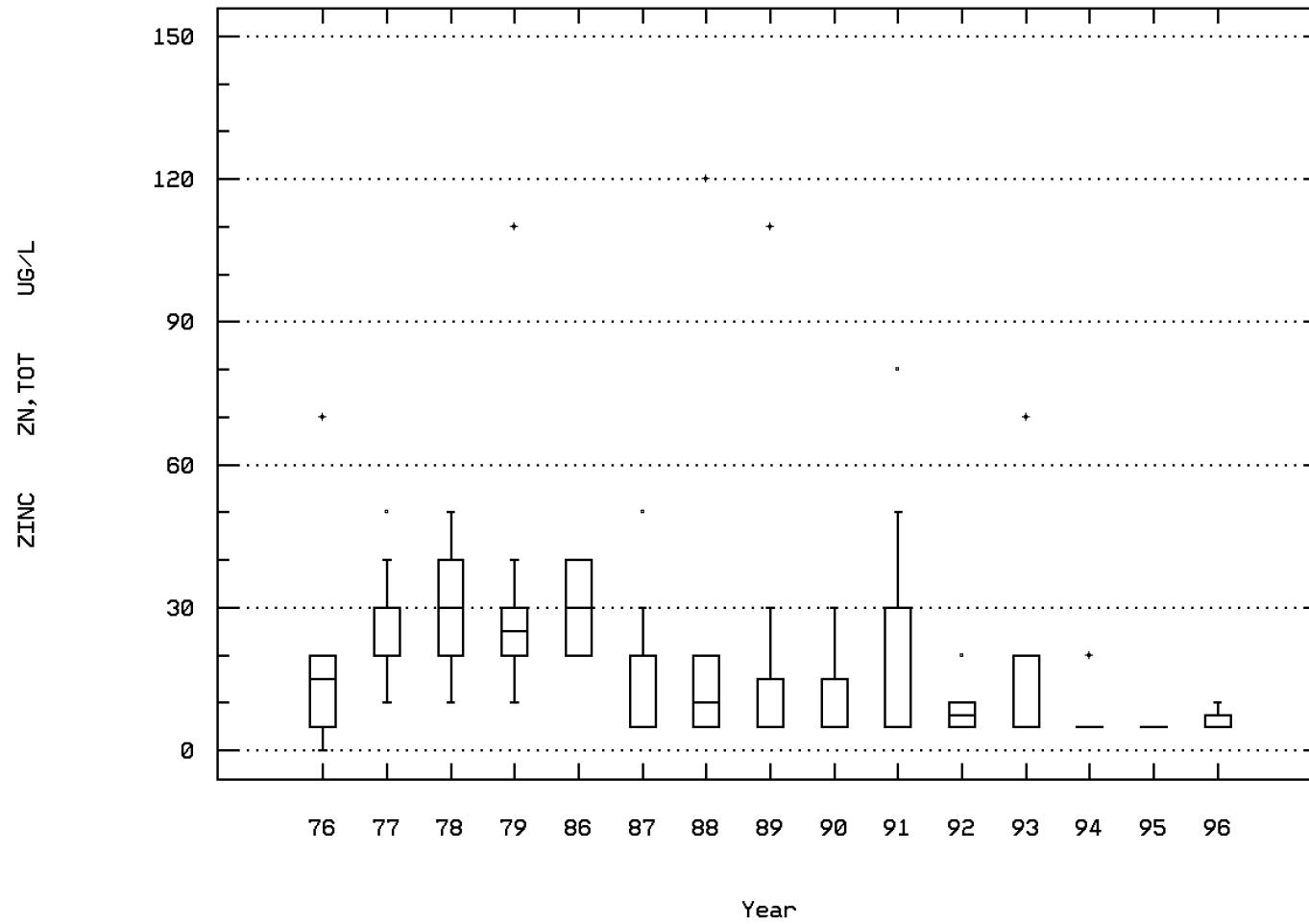
MANGANESE, DISSOLVED (UG/L AS MN)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 01092

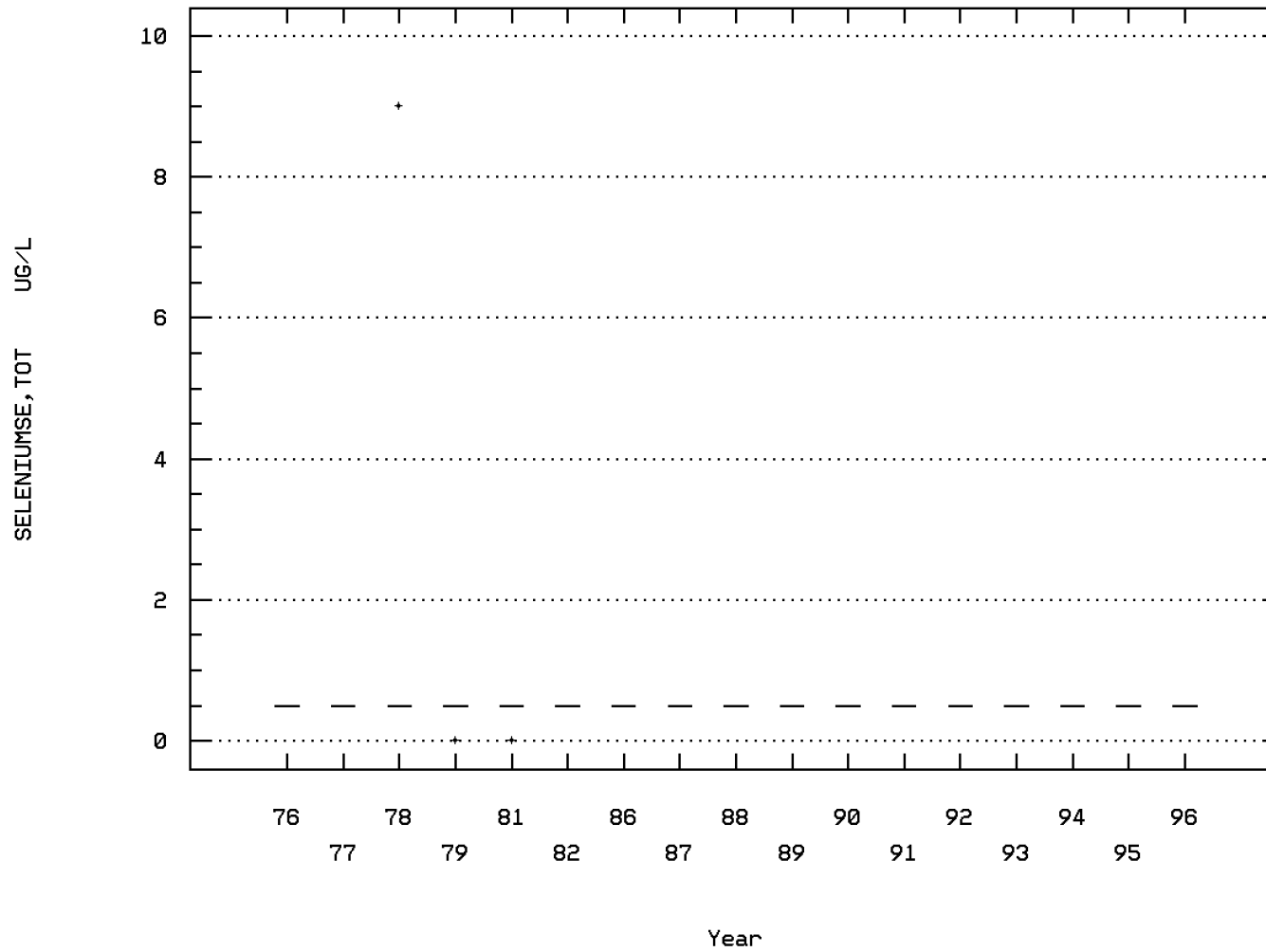
ZINC, TOTAL (UG/L AS ZN)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 01147

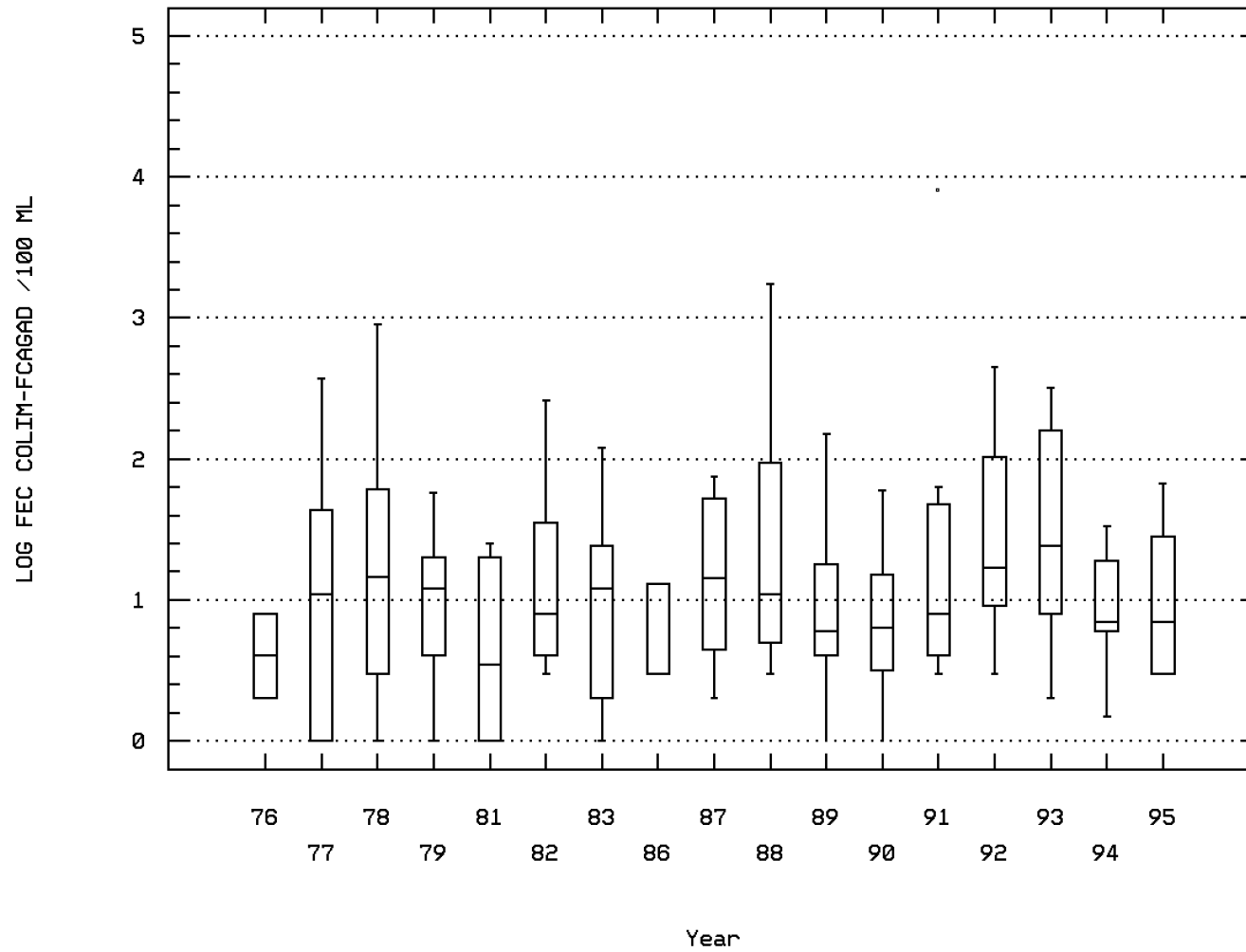
SELENIUM, TOTAL (UG/L AS SE)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 31625

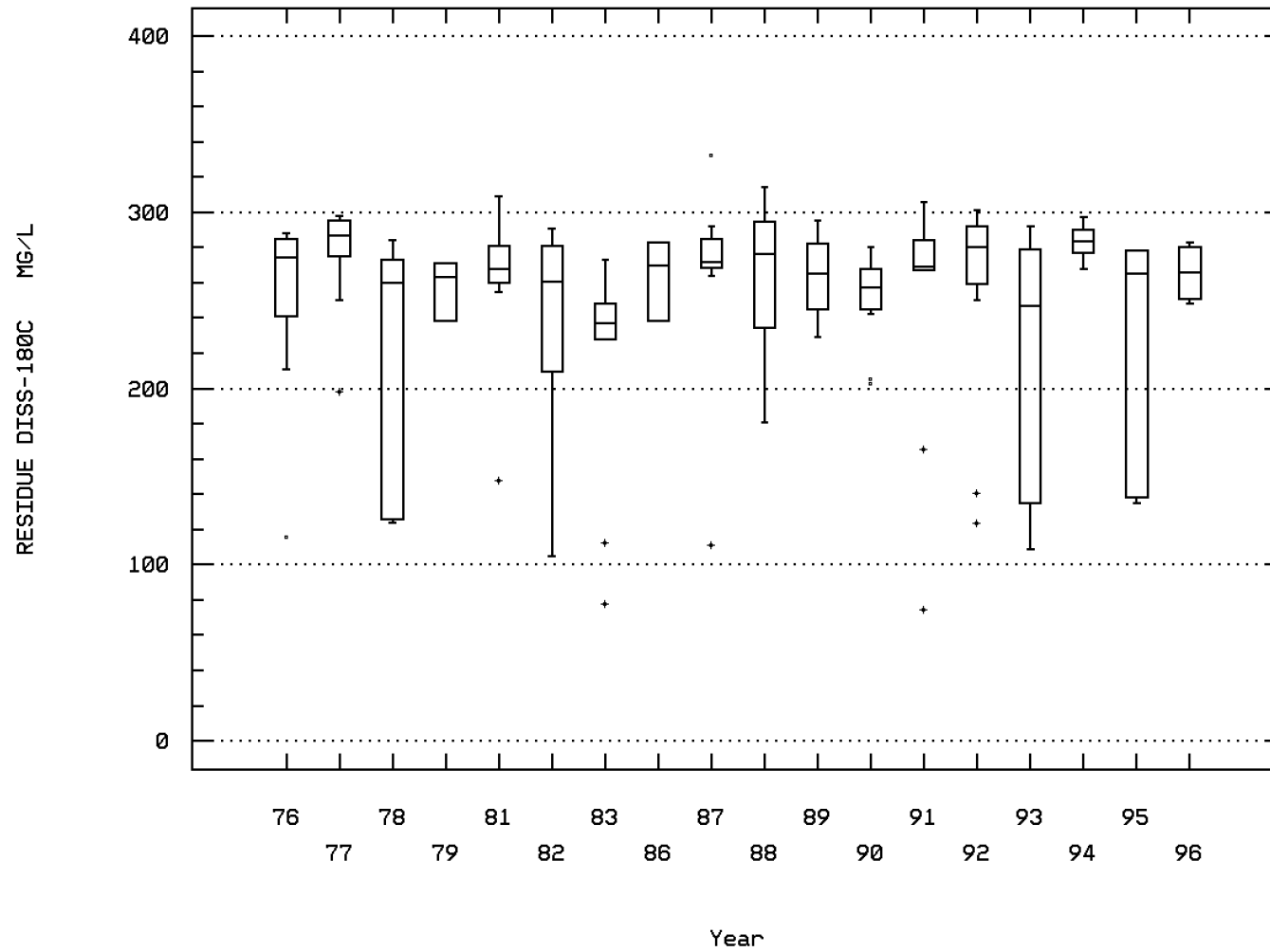
LOG FECAL COLIFORM, MF,M-FC, 0.7 UM



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 70300

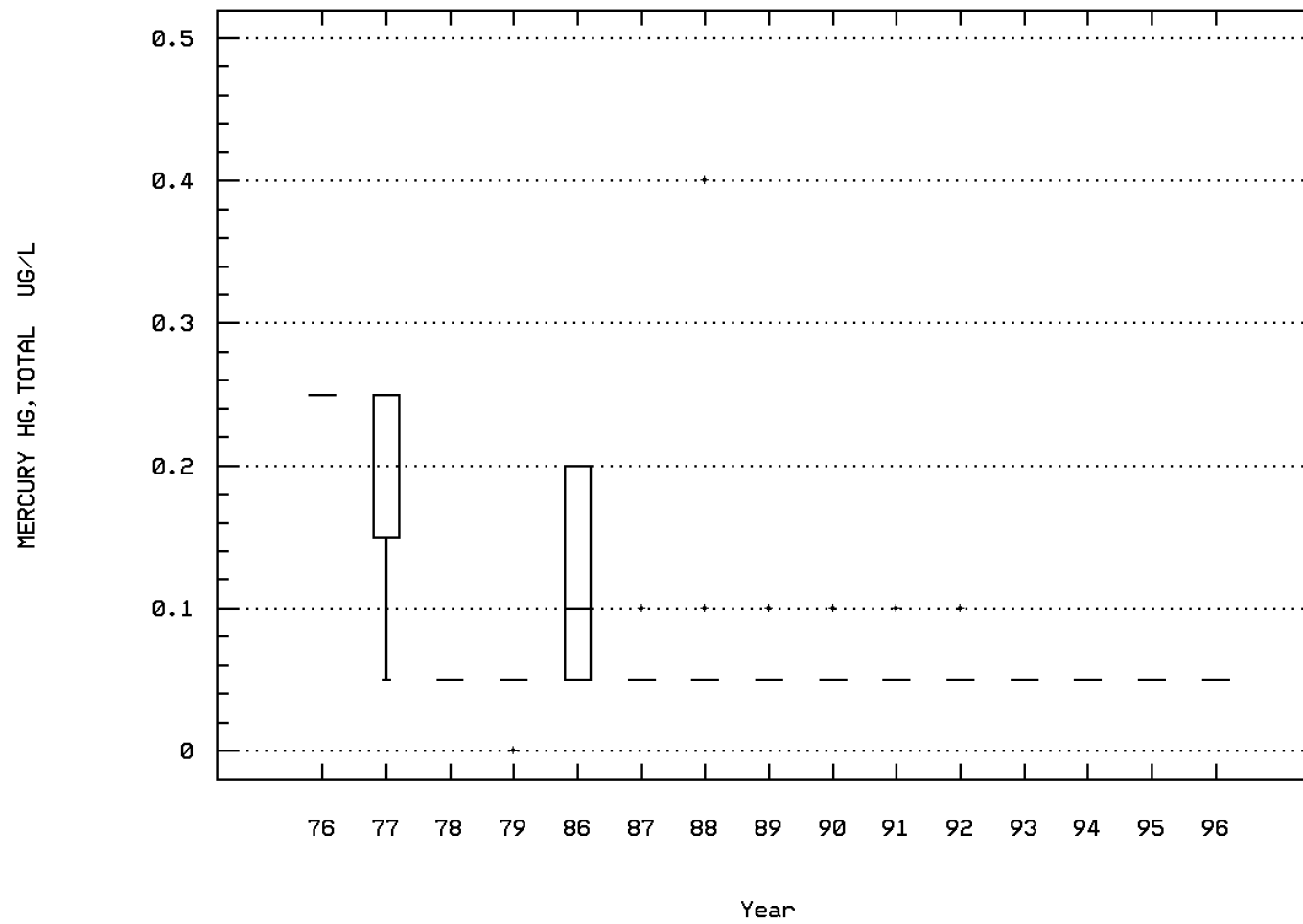
RESIDUE, TOTAL FILTRABLE (DRIED AT 180C)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 71900

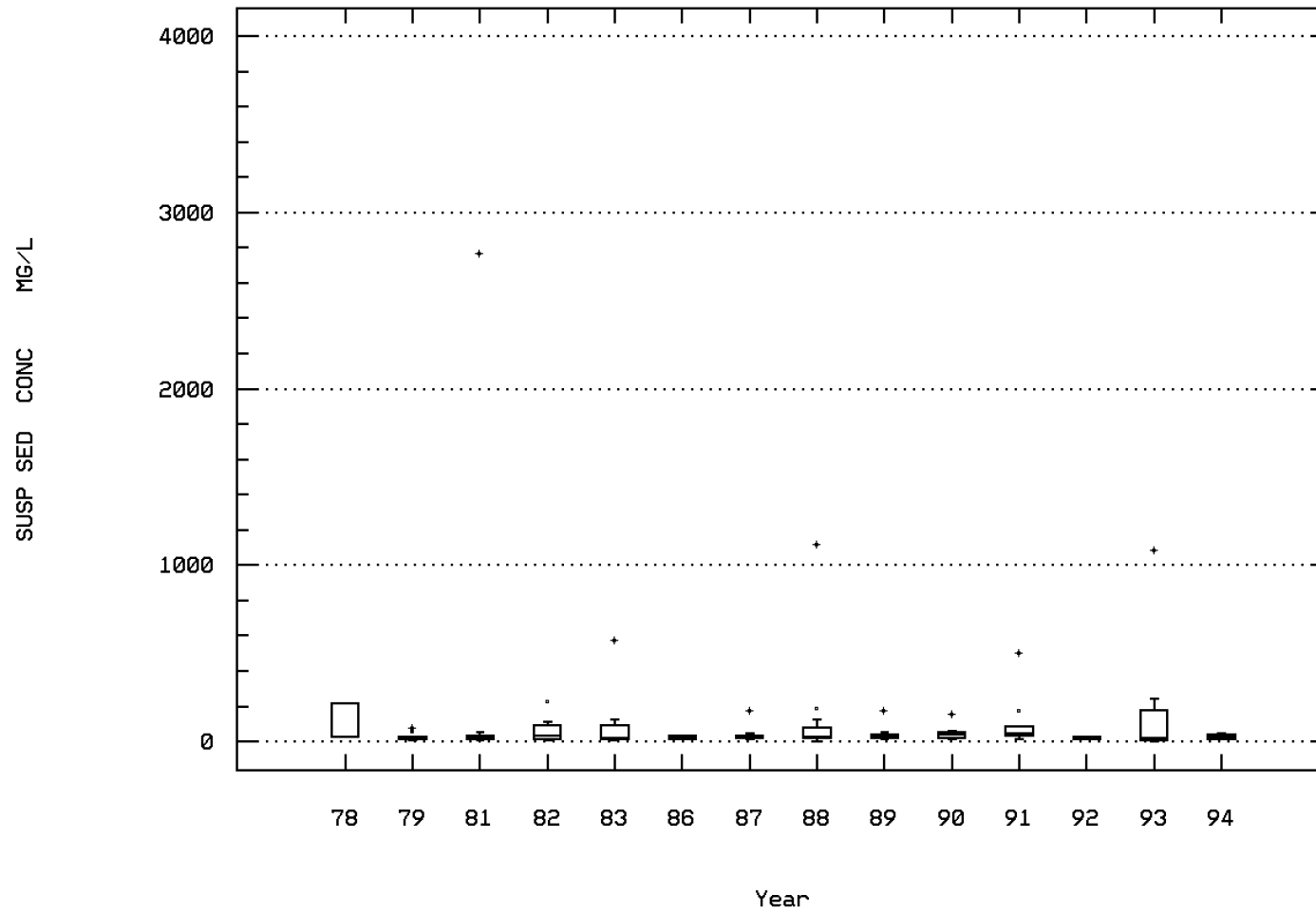
MERCURY, TOTAL (UG/L AS HG)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 80154

SUSP. SEDIMENT CONCENTRATION-EVAP. AT 1



VERDE RIVER NR CLARKDALE, ARIZ.

Seasonal Analysis for Season #1: 10/10 to 2/09 - Station TUZI0098

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	10/22/86-06/25/96	30	58.	63.667	90.	51.	154.23	12.419	54.	55.	72.75	87.9
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/24/76-07/23/96	53	11.5	12.17	19.5	5.	12.548	3.542	7.2	10.	15.	17.3
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/10/78-07/23/96	37	15.	14.297	30.	-0.5	42.173	6.494	7.4	4.5	17.75	24.3
00025	BAROMETRIC PRESSURE (MM OF HG)	10/27/82-07/23/96	35	678.	676.943	686.	665.	29.761	5.455	666.6	674.	680.	683.4
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/24/76-06/25/96	47	82.	188.468	3600.	67.	297161.602	545.125	76.	79.	87.	107.4
00065	STAGE, STREAM (FEET)	10/27/82-06/25/96	36	0.135	0.519	5.56	0.07	1.137	1.066	0.087	0.11	0.298	1.335
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/12/79-07/23/96	33	3.	20.588	460.	0.3	6476.02	80.474	0.48	0.95	5.4	24.2
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/24/76-07/23/96	53	507.	483.717	610.	146.	8501.707	92.205	430.2	494.	518.	530.
00300p	OXYGEN, DISSOLVED MG/L	03/24/76-07/23/96	51	10.7	10.447	12.2	8.1	0.961	0.98	8.84	9.6	11.2	11.6
00340p	COD, .25N K2CR2O7 MG/L	03/24/76-07/23/96	42	11.	22.798	293.	5.	2052.379	45.303	5.	5.	27.25	43.4
00400p	PH (STANDARD UNITS)	03/24/76-07/23/96	51	8.2	8.204	8.5	7.5	0.045	0.212	8.	8.1	8.4	8.4
00400p	CONVERTED PH (STANDARD UNITS)	03/24/76-07/23/96	51	8.2	8.142	8.5	7.5	0.049	0.221	8.	8.1	8.4	8.4
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/24/76-07/23/96	51	0.006	0.007	0.032	0.003	0.	0.005	0.004	0.004	0.008	0.01
00403	PH, LAB, STANDARD UNITS SU	01/21/81-07/23/96	41	8.1	8.1	8.4	7.5	0.033	0.18	7.8	8.	8.2	8.3
00403	CONVERTED PH, LAB, STANDARD UNITS	01/21/81-07/23/96	41	8.1	8.057	8.4	7.5	0.034	0.185	7.8	8.	8.2	8.3
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/21/81-07/23/96	41	0.008	0.009	0.032	0.004	0.	0.005	0.005	0.006	0.01	0.016
00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	03/24/76-04/02/91	34	226.5	155.176	269.	0.	13463.301	116.031	0.	0.	250.	265.5
00440	BICARBONATE ION (MG/L AS HCO3)	03/24/76-11/17/88	19	220.	159.474	310.	0.	21389.596	146.252	0.	0.	310.	310.
00445	CARBONATE ION (MG/L AS CO3)	03/24/76-11/17/88	18	0.	0.111	2.	0.	0.222	0.471	0.	0.	0.	0.2
00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	10/22/86-07/23/96	32	2.	4.094	13.	0.	23.12	4.808	0.	0.	9.5	11.7
00453	BICARBONATE,WATER,DISS,INCR TIT, FIELD,AS HCO3,MG/L	10/22/86-07/23/96	32	309.	296.5	337.	79.	3314.323	57.57	263.6	301.5	320.	331.5
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/24/79-07/23/96	42	9.5	37.714	880.	0.	18594.185	136.36	0.5	2.	24.75	50.
00600	NITROGEN, TOTAL (MG/L AS N)	03/24/76-02/01/83	18	0.38	0.469	1.1	0.09	0.079	0.28	0.162	0.248	0.65	0.92
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/16/81-07/23/96	30	0.01	0.013	0.04	0.005	0.	0.01	0.005	0.005	0.02	0.03
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/24/76-07/23/96	50	0.165	0.315	2.4	0.03	0.154	0.392	0.1	0.1	0.4	0.6
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/24/76-07/23/96	49	0.2	0.192	0.6	0.05	0.009	0.094	0.08	0.13	0.22	0.3
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	03/24/76-08/31/83	14	0.2	0.179	0.4	0.05	0.011	0.103	0.065	0.087	0.225	0.35
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	03/24/76-12/01/82	14	0.03	0.061	0.28	0.	0.006	0.077	0.	0.023	0.075	0.215
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	03/24/76-07/23/96	51	0.02	0.062	0.65	0.005	0.015	0.124	0.005	0.01	0.04	0.178
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/24/76-08/31/83	14	0.01	0.021	0.09	0.005	0.001	0.024	0.005	0.009	0.025	0.07
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/24/76-10/05/83	20	0.9	3.065	15.	0.4	20.576	4.536	0.6	0.7	2.7	12.9
00900	HARDNESS, TOTAL (MG/L AS CaCO3)	03/24/76-03/10/83	21	220.	211.238	240.	76.	1786.19	42.263	126.	210.	235.	240.
00902	HARDNESS, NON-CARBONATE (MG/L AS CaCO3)	03/24/76-08/12/82	13	0.	4.077	41.	0.	128.077	11.317	0.	0.	3.	27.
00915p	CALCIUM, DISSOLVED (MG/L AS Ca)	03/24/76-07/23/96	53	51.	49.981	58.	19.	75.096	8.666	43.8	50.	54.	56.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/24/76-07/23/96	53	24.	22.653	26.	4.7	23.331	4.83	19.4	23.	25.	25.
00930p	SODIUM, DISSOLVED (MG/L AS Na)	03/24/76-07/23/96	46	25.	23.198	28.	4.7	35.526	5.96	9.03	24.	26.	27.
00931	SODIUM ADSORPTION RATIO	03/24/76-03/10/83	14	0.7	0.614	0.8	0.2	0.032	0.179	0.25	0.55	0.7	0.75
00932	SODIUM, PERCENT	03/24/76-03/10/83	14	18.	18.	30.	7.	21.385	4.624	11.5	16.75	19.	24.5
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	03/24/76-07/23/96	46	2.	1.985	2.9	1.1	0.065	0.256	1.8	1.9	2.1	2.23
00940p	CHLORIDE,TOTAL IN WATER MG/L	03/24/76-07/23/96	48	13.	12.417	16.	3.	8.759	2.96	7.8	12.	14.	15.
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/24/76-07/23/96	53	9.	8.981	15.	3.	3.557	1.886	7.	8.	10.	10.6
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	03/24/76-07/23/96	46	0.2	0.215	0.4	0.05	0.005	0.072	0.1	0.2	0.3	0.3
00955	SILICA, DISSOLVED (MG/L AS SiO2)	03/24/76-07/03/91	14	19.	18.	20.	12.	6.154	2.481	13.	16.75	20.	20.
01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/22/86-07/23/96	31	17.	15.903	20.	2.	16.157	4.02	11.8	16.	18.	18.
01002p	ARSENIC, TOTAL (UG/L AS AS)	03/24/76-07/23/96	44	17.	16.045	21.	4.	11.579	3.403	11.	15.	18.	19.
01005	BARIUM, DISSOLVED (UG/L AS Ba)	10/22/86-07/23/96	31	170.	164.323	190.	18.	1521.359	39.005	146.	170.	180.	180.
01020p	BORON, DISSOLVED (UG/L AS B)	03/24/76-08/30/94	42	165.	150.476	210.	10.	2282.695	47.778	49.	157.5	170.	187.
01022p	BORON, TOTAL (UG/L AS B)	03/24/76-07/23/96	18	190.	187.778	390.	50.	4794.771	69.244	68.	167.5	210.	264.
01025p	CADMIUM, DISSOLVED (UG/L AS Cd)	03/24/76-07/23/96	31 ##	0.5	0.645	3.	0.5	0.27	0.52	0.5	0.5	0.5	0.9
01027p	CADMIUM, TOTAL (UG/L AS Cd)	03/24/76-07/23/96	52 ##	0.5	2.587	15.	0.	20.017	4.474	0.5	0.5	1.	10.
01030	CHROMIUM, DISSOLVED (UG/L AS Cr)	01/21/81-07/23/96	36	1.5	1.667	5.	0.5	1.2	1.095	0.5	1.	2.	3.
01034p	CHROMIUM, TOTAL (UG/L AS Cr)	03/24/76-07/23/96	42	2.5	4.143	20.	0.	22.93	4.789	0.	0.875	5.25	10.7
01040	COPPER, DISSOLVED (UG/L AS Cu)	10/05/83-07/23/96	31	1.	1.645	5.	0.5	2.203	1.484	0.5	0.5	2.	4.8
01042p	COPPER, TOTAL (UG/L AS Cu)	03/24/76-07/23/96	48	5.	16.135	340.	0.5	2487.146	49.871	0.5	2.	10.	26.8
01045p	IRON, TOTAL (UG/L AS Fe)	03/24/76-07/23/96	44	205.	949.523	20000.	30.	10422987.232	3228.465	40.	100.	295.	915.
01046p	IRON, DISSOLVED (UG/L AS Fe)	03/24/76-07/23/96	45	7.	22.267	300.	1.5	2257.041	47.508	2.4	5.	20.	60.
01049	LEAD, DISSOLVED (UG/L AS Pb)	01/21/81-07/23/96	40 ##	1.	1.388	5.	0.5	1.199	1.095	0.5	0.5	2.5	2.5
01051p	LEAD, TOTAL (UG/L AS Pb)	03/24/76-07/23/96	43	2.5	13.86	100.	0.5	835.504	28.905	0.5	1.	6.	75.6
01055p	MANGANESE, TOTAL (UG/L AS Mn)	03/24/76-07/23/96	44	20.	41.818	800.	5.	15036.152	122.622	5.	5.	20.	55.

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #1: 10/10 to 2/09 - Station TUZI0098

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	03/24/76-07/23/96	45	5.	6.267	20.	2.	16.745	4.092	3.	4.	6.5	9.8
01075	SILVER, DISSOLVED (UG/L AS AG)	10/22/86-07/23/96	31 ###	0.5	0.661	5.	0.5	0.656	0.81	0.5	0.5	0.5	0.5
01090	ZINC, DISSOLVED (UG/L AS ZN)	01/21/81-07/23/96	36	5.	5.903	17.	1.5	15.226	3.902	1.5	1.875	7.75	13.
01092p	ZINC, TOTAL (UG/L AS ZN)	03/24/76-07/23/96	44	10.	17.727	110.	0.	385.412	19.632	5.	5.	20.	35.
01145	SELENIUM, DISSOLVED (UG/L AS SE)	10/22/86-07/23/96	31 ###	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
01147p	SELENIUM, TOTAL (UG/L AS SE)	03/24/76-07/23/96	49 ##	0.5	0.51	1.	0.	0.026	0.161	0.5	0.5	0.5	0.5
31625p	FECAL COLIFORM, MF,M-FC, 0.7 UM	11/10/76-11/21/95	49	6.	39.316	900.	0.5	17906.663	133.816	1.	3.	16.5	71.
31625p	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	11/10/76-11/21/95	49	0.778	0.876	2.954	-0.301	0.462	0.68	0.	0.477	1.217	1.851
31625p	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			7.524								
31673p	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/20/77-11/21/95	32	40.	87.484	423.	0.5	11681.508	108.081	6.9	17.25	128.75	223.6
31673p	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/20/77-11/21/95	32	1.6	1.602	2.626	-0.301	0.408	0.639	0.831	1.234	2.108	2.347
31673p	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			39.998								
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	03/24/76-10/05/83	18	3.	3.167	18.	0.	17.441	4.176	0.	0.	3.25	8.1
39036	ALKALINITY,FILTERED SAMPLE AS CaCO3 MG/L	10/19/88-06/25/96	24	261.5	242.75	271.	66.	2957.935	54.387	141.	254.25	266.	268.5
39086	ALKALINITY, WATER,DISS,INCR TIT,FIELD,AS CaCO3,MG/L	10/22/86-07/23/96	32	262.5	249.625	276.	65.	2343.274	48.407	219.1	256.5	267.75	273.
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/24/76-07/23/96	51	271.	261.863	332.	105.	2173.921	46.625	199.4	256.	288.	296.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	03/24/76-03/10/83	14	287.5	262.929	305.	108.	3705.148	60.87	132.	250.5	299.25	303.5
70302	SOLIDS, DISSOLVED-TONS PER DAY	03/24/76-02/01/83	21	59.2	64.981	163.	39.	597.298	24.44	49.64	55.7	64.95	85.74
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	03/24/76-02/01/83	21	0.37	0.349	0.41	0.14	0.004	0.064	0.238	0.34	0.39	0.398
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	10/27/82-08/30/94	11 ##	0.005	0.009	0.02	0.005	0.	0.006	0.005	0.005	0.01	0.02
71887	NITROGEN, TOTAL, AS NO3 - MG/L	03/24/76-02/01/83	17	1.8	2.188	5.	0.8	1.465	1.21	0.96	1.1	2.95	4.2
71900p	MERCURY, TOTAL (UG/L AS HG)	03/24/76-07/23/96	42 ##	0.05	0.069	0.25	0.	0.003	0.057	0.05	0.05	0.05	0.17
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/11/78-08/30/94	39	26.	67.256	1080.	5.	30269.248	173.981	8.	16.	37.	124.

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #2: 2/10 to 4/30 - Station TUZI0098

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	10/22/86-06/25/96	22	60.	65.5	91.	43.	200.548	14.161	47.3	56.75	77.	88.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/24/76-07/23/96	46	14.	13.913	22.	6.	18.437	4.294	8.35	10.	17.125	20.15
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/10/78-07/23/96	32	19.75	19.016	33.5	6.	45.766	6.765	9.3	15.125	23.	28.7
00025	BAROMETRIC PRESSURE (MM OF HG)	10/27/82-07/23/96	28	676.	675.357	682.	656.	25.868	5.086	670.	673.25	679.5	680.
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/24/76-06/25/96	42	113.5	459.262	4480.	79.	622989.515	789.297	81.3	84.	496.5	1284.
00065	STAGE, STREAM (FEET)	10/27/82-06/25/96	29	0.5	1.211	6.3	0.08	2.166	1.472	0.1	0.15	1.695	3.81
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/12/79-07/23/96	25	13.	17.224	81.	0.3	469.897	21.677	0.66	1.45	19.	56.4
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/24/76-07/23/96	44	412.5	365.273	620.	103.	23204.11	152.329	134.	203.25	499.25	510.5
00300p	OXYGEN, DISSOLVED MG/L	03/24/76-07/23/96	42	9.6	9.636	11.6	7.4	0.818	0.904	8.43	9.1	10.2	11.
00340p	COD, .25N K2CR2O7 MG/L	03/24/76-07/23/96	36	13.	16.194	100.	2.	273.99	16.553	5.	5.	21.75	26.5
00400p	PH (STANDARD UNITS)	03/24/76-07/23/96	45	8.2	8.131	8.6	6.9	0.103	0.32	7.7	8.	8.3	8.446
00400p	CONVERTED PH (STANDARD UNITS)	03/24/76-07/23/96	45	8.2	7.953	8.6	6.9	0.135	0.367	7.7	8.	8.3	8.446
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/24/76-07/23/96	45	0.006	0.011	0.126	0.003	0.	0.019	0.004	0.005	0.01	0.02
00403	PH, LAB, STANDARD UNITS SU	01/21/81-07/23/96	34	8.15	8.068	8.5	7.2	0.065	0.254	7.75	7.9	8.2	8.3
00403	CONVERTED PH, LAB, STANDARD UNITS	01/21/81-07/23/96	34	8.147	7.973	8.5	7.2	0.074	0.272	7.75	7.9	8.2	8.3
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/21/81-07/23/96	34	0.007	0.011	0.063	0.003	0.	0.01	0.005	0.006	0.013	0.018
00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	03/24/76-04/02/91	28	96.	122.	274.	0.	10034.074	100.17	0.	13.25	245.	259.3
00440	BICARBONATE ION (MG/L AS HCO3)	03/24/76-11/17/88	16	115.	142.813	316.	0.	16929.363	130.113	0.	0.	306.25	311.8
00445	CARBONATE ION (MG/L AS CO3)	03/24/76-11/17/88	15	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	10/22/86-07/23/96	24	0.	5.083	24.	0.	59.123	7.689	0.	0.	8.	20.5
00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	10/22/86-07/23/96	25	256.	218.1	330.	63.	7816.125	88.409	106.4	121.5	300.	315.8
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/24/79-07/23/96	34	15.	30.338	158.	0.5	1587.875	39.848	1.5	4.75	36.	101.
00600	NITROGEN, TOTAL (MG/L AS N)	03/24/76-02/01/83	15	0.32	0.479	1.7	0.16	0.153	0.391	0.178	0.23	0.65	1.136
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/16/81-07/23/96	24	0.02	0.025	0.1	0.005	0.001	0.024	0.005	0.01	0.03	0.07
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/24/76-07/23/96	45	0.22	0.364	2.1	0.06	0.145	0.381	0.1	0.1	0.495	0.704
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/24/76-07/23/96	43	0.06	0.093	0.23	0.01	0.004	0.063	0.03	0.05	0.13	0.2
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	03/24/76-08/31/83	14	0.09	0.114	0.3	0.01	0.007	0.081	0.025	0.06	0.2	0.25
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	03/24/76-12/01/82	13	0.06	0.092	0.25	0.03	0.006	0.078	0.03	0.03	0.12	0.25

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #2: 2/10 to 4/30 - Station TUZI0098

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	03/24/76-07/23/96	45	0.06	0.075	0.29	0.005	0.005	0.071	0.005	0.02	0.1	0.204
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/24/76-08/31/83	14	0.025	0.031	0.08	0.01	0.001	0.024	0.01	0.01	0.04	0.08
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/24/76-10/05/83	19	4.6	5.132	12.	0.8	12.876	3.588	0.9	1.9	6.5	12.
00900	HARDNESS, TOTAL (MG/L AS CaCO3)	03/24/76-03/10/83	18	190.	161.611	240.	60.	5159.663	71.831	60.9	89.	230.	240.
00902	HARDNESS, NON-CARBONATE (MG/L AS CaCO3)	03/24/76-08/12/82	13	0.	0.769	4.	0.	2.359	1.536	0.	0.	1.	4.
00915p	CALCIUM, DISSOLVED (MG/L AS Ca)	03/24/76-07/23/96	45	45.	39.644	60.	14.	215.734	14.688	16.6	24.5	52.	54.8
00925p	MAGNESIUM, DISSOLVED (MG/L AS Mg)	03/24/76-07/23/96	45	19.	16.8	26.	3.8	58.488	7.648	5.62	8.5	23.5	25.
00930p	SODIUM, DISSOLVED (MG/L AS Na)	03/24/76-07/23/96	39	18.	16.71	27.	3.7	67.096	8.191	5.7	7.7	25.	26.
00931	SODIUM ADSORPTION RATIO	03/24/76-03/10/83	14	0.5	0.5	0.7	0.3	0.026	0.162	0.3	0.3	0.7	0.7
00932	SODIUM, PERCENT	03/24/76-03/10/83	14	15.	16.143	19.	13.	4.44	2.107	13.5	14.75	18.25	19.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	03/24/76-07/23/96	39	1.9	1.772	3.	1.	0.23	0.48	1.2	1.3	2.	2.2
00940p	CHLORIDE, TOTAL IN WATER MG/L	03/24/76-07/23/96	39	10.	9.154	17.	2.	18.028	4.246	3.	5.	13.	14.
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/24/76-07/23/96	45	8.	7.978	14.	3.	7.022	2.65	4.	6.	10.	11.4
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	03/24/76-07/23/96	39	0.2	0.183	0.3	0.05	0.006	0.076	0.1	0.1	0.2	0.3
00955	SILICA, DISSOLVED (MG/L AS SiO2)	03/24/76-07/03/91	14	17.	16.857	22.	14.	4.593	2.143	14.	15.	18.	20.5
01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/22/86-07/23/96	23	12.	11.043	18.	2.	31.862	5.645	4.	5.	17.	17.6
01002p	ARSENIC, TOTAL (UG/L AS AS)	03/24/76-07/23/96	36	14.	11.694	20.	2.	32.733	5.721	4.	5.25	16.75	18.
01005	BARIUM, DISSOLVED (UG/L AS Ba)	10/22/86-07/23/96	23	130.	119.696	180.	34.	3094.04	55.624	44.2	53.	170.	180.
01020p	BORON, DISSOLVED (UG/L AS B)	03/24/76-08/30/94	36	135.	108.194	180.	5.	3231.647	56.848	37.	50.	160.	170.
01022p	BORON, TOTAL (UG/L AS B)	03/24/76-07/23/96	17	150.	154.706	360.	50.	6676.471	81.71	50.	85.	205.	264.
01025p	CADMIUM, DISSOLVED (UG/L AS Cd)	03/24/76-07/23/96	25 ###	0.5	1.36	18.	0.5	12.282	3.505	0.5	0.5	0.5	1.8
01027p	CADMIUM, TOTAL (UG/L AS Cd)	03/24/76-07/23/96	44 ###	0.5	2.898	15.	0.	20.681	4.548	0.5	0.5	2.75	10.
01030	CHROMIUM, DISSOLVED (UG/L AS Cr)	01/21/81-07/23/96	29	1.	1.638	7.	0.5	2.159	1.469	0.5	0.5	2.	3.
01034p	CHROMIUM, TOTAL (UG/L AS Cr)	03/24/76-07/23/96	35	2.	4.257	20.	0.	30.064	5.483	0.	0.5	6.	12.4
01040	COPPER, DISSOLVED (UG/L AS Cu)	10/05/83-07/23/96	23	2.	3.022	21.	0.5	17.829	4.222	0.5	1.	3.	5.
01042p	COPPER, TOTAL (UG/L AS Cu)	03/24/76-07/23/96	41	5.	8.756	62.	0.5	148.552	12.188	0.5	3.	10.	22.4
01045p	IRON, TOTAL (UG/L AS Fe)	03/24/76-07/23/96	35	400.	1096.	4500.	50.	1646842.353	1283.294	76.	120.	1700.	3680.
01046p	IRON, DISSOLVED (UG/L AS Fe)	03/24/76-07/23/96	37	20.	62.743	320.	1.5	7548.161	86.88	4.8	6.	86.5	210.
01049	LEAD, DISSOLVED (UG/L AS Pb)	01/21/81-07/23/96	32 ###	2.	2.156	7.	0.5	3.894	1.973	0.5	0.5	2.5	5.
01051p	LEAD, TOTAL (UG/L AS Pb)	03/24/76-07/23/96	35 ###	3.	20.843	100.	0.5	1318.335	36.309	0.5	1.	9.	100.
01055p	MANGANESE, TOTAL (UG/L AS Mn)	03/24/76-07/23/96	35	20.	33.	150.	5.	1309.118	36.182	5.	10.	30.	98.
01056p	MANGANESE, DISSOLVED (UG/L AS Mn)	03/24/76-07/23/96	37	5.	32.	960.	2.	24618.278	156.902	3.	4.	6.	20.
01075	SILVER, DISSOLVED (UG/L AS Ag)	10/22/86-07/23/96	23 ###	0.5	0.63	2.	0.5	0.119	0.344	0.5	0.5	0.5	1.
01090	ZINC, DISSOLVED (UG/L AS Zn)	01/21/81-07/23/96	29	5.	14.914	270.	1.5	2428.769	49.283	1.5	1.75	7.5	16.
01092p	ZINC, TOTAL (UG/L AS Zn)	03/24/76-07/23/96	35 ###	10.	14.143	50.	0.	152.185	12.336	5.	5.	20.	34.
01145	SELENIUM, DISSOLVED (UG/L AS Se)	10/22/86-07/23/96	23 ###	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
01147p	SELENIUM, TOTAL (UG/L AS Se)	03/24/76-07/23/96	42 ###	0.5	0.75	9.	0.5	1.723	1.312	0.5	0.5	0.5	1.
31625p	FECAL COLIFORM, MF,M-FC, 0.7 UM	11/10/76-11/21/95	42	6.	13.012	70.	0.5	288.067	16.973	1.	3.	14.75	34.7
31625p	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	11/10/76-11/21/95	42	0.778	0.79	1.845	-0.301	0.323	0.568	0.	0.477	1.167	1.54
31625p	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			6.161								
31673p	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/20/77-11/21/95	23	90.	139.043	625.	2.	24540.771	156.655	20.8	33.	140.	428.4
31673p	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/20/77-11/21/95	23	1.954	1.89	2.796	0.301	0.292	0.54	1.318	1.519	2.146	2.63
31673p	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			77.573								
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	03/24/76-10/05/83	20	2.	3.4	12.	0.	12.884	3.589	0.	1.	5.5	9.8
39036	ALKALINITY, FILTERED SAMPLE AS CaCO3 MG/L	10/19/88-06/25/96	19	244.	194.684	269.	52.	5975.561	77.302	94.	101.	257.	262.
39086	ALKALINITY, WATER, DISS, INCR TIT, FIELD, AS CaCO3, MG/L	10/22/86-07/23/96	25	246.	192.46	274.	52.	6265.748	79.156	87.4	99.75	259.5	268.
70300p	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L	03/24/76-07/23/96	42	260.5	218.619	309.	74.	5639.412	75.096	111.3	135.	278.25	295.7
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	03/24/76-03/10/83	14	195.5	204.714	308.	82.	7609.297	87.231	87.	118.75	294.5	305.
70302	SOLIDS, DISSOLVED-TONS PER DAY	03/24/76-02/01/83	17	71.7	131.447	363.	57.6	9797.155	98.981	57.92	62.7	206.	320.6
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	03/24/76-02/01/83	17	0.35	0.292	0.42	0.11	0.012	0.108	0.142	0.17	0.38	0.404
70507	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	10/27/82-08/30/94	8	0.015	0.034	0.1	0.005	0.001	0.035	**	**	**	**
71887	NITROGEN, TOTAL, AS NO3 - MG/L	03/24/76-02/01/83	15	1.4	2.1	7.3	0.7	2.843	1.686	0.76	1.	2.9	4.96
71900p	MERCURY, TOTAL (UG/L AS Hg)	03/24/76-07/23/96	34 ###	0.05	0.082	0.25	0.05	0.005	0.072	0.05	0.05	0.05	0.25
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/11/78-08/30/94	30	28.5	62.867	570.	3.	11530.947	107.382	7.4	19.	52.25	172.5

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #3: 5/01 to 6/30 - Station TUZI0098

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	10/22/86-06/25/96	17	61.	67.529	90.	53.	182.89	13.524	53.8	57.5	83.5	89.2
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/24/76-07/23/96	29	22.	21.241	26.	14.5	10.029	3.167	17.	19.25	24.	25.5
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/10/78-07/23/96	21	29.5	29.619	39.	16.5	37.023	6.085	21.2	24.25	34.75	37.4
00025	BAROMETRIC PRESSURE (MM OF HG)	10/27/82-07/23/96	18	675.5	675.111	680.	665.	13.281	3.644	669.5	673.75	677.25	680.
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/24/76-06/25/96	27	79.	79.	94.	66.	26.462	5.144	73.	77.	82.	86.
00065	STAGE, STREAM (FEET)	10/27/82-06/25/96	19	0.1	0.266	1.11	0.04	0.133	0.365	0.05	0.07	0.25	1.07
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/12/79-07/23/96	16	2.05	2.638	10.	0.4	5.555	2.357	0.54	1.2	3.	6.99
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/24/76-07/23/96	29	500.	501.897	576.	469.	469.596	21.67	475.	490.	510.	520.
00300p	OXYGEN, DISSOLVED MG/L	03/24/76-07/23/96	27	8.8	8.207	10.4	0.	3.79	1.947	6.68	8.	9.	9.48
00340p	COD, .25N K2CR2O7 MG/L	03/24/76-07/23/96	22	11.	18.682	140.	0.	822.989	28.688	5.	5.	23.5	30.1
00400p	PH (STANDARD UNITS)	03/24/76-07/23/96	29	8.3	8.225	8.5	7.8	0.021	0.145	8.	8.19	8.3	8.4
00400p	CONVERTED PH (STANDARD UNITS)	03/24/76-07/23/96	29	8.3	8.199	8.5	7.8	0.022	0.148	8.	8.19	8.3	8.4
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/24/76-07/23/96	29	0.005	0.006	0.016	0.003	0.	0.003	0.004	0.005	0.006	0.01
00403	PH, LAB, STANDARD UNITS SU	01/21/81-07/23/96	22	8.1	8.123	8.3	7.9	0.016	0.127	7.93	8.	8.2	8.3
00403	CONVERTED PH, LAB, STANDARD UNITS	01/21/81-07/23/96	22	8.1	8.105	8.3	7.9	0.016	0.128	7.93	8.	8.2	8.3
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/21/81-07/23/96	22	0.008	0.008	0.013	0.005	0.	0.002	0.005	0.006	0.01	0.012
00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	03/24/76-04/02/91	17	240.	190.176	300.	0.	12072.279	109.874	0.	114.	252.5	266.4
00440	BICARBONATE ION (MG/L AS HCO3)	03/24/76-11/17/88	8	290.	221.875	310.	0.	18842.411	137.268	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	03/24/76-11/17/88	8	0.	0.	0.	0.	0.	0.	**	**	**	**
00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	10/22/86-07/23/96	15	0.	3.867	16.	0.	27.695	5.263	0.	0.	7.	13.
00453	BICARBONATE,WATER,DISS,INCR TIT, FIELD,AS HCO3,MG/L	10/22/86-07/23/96	17	300.	283.029	322.	144.5	2720.202	52.156	151.3	286.5	310.5	320.4
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/24/79-07/23/96	22	7.5	10.25	33.	0.5	90.542	9.515	0.5	3.	14.5	29.6
00600	NITROGEN, TOTAL (MG/L AS N)	03/24/76-02/01/83	8	0.435	0.819	3.8	0.26	1.461	1.209	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/16/81-07/23/96	14	0.01	0.018	0.08	0.005	0.	0.02	0.005	0.005	0.02	0.06
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/24/76-07/23/96	28	0.305	0.53	3.8	0.1	0.561	0.749	0.1	0.193	0.48	1.35
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/24/76-07/23/96	26 ##	0.05	0.057	0.28	0.01	0.004	0.063	0.01	0.025	0.05	0.135
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	03/24/76-08/31/83	7	0.05	0.086	0.3	0.02	0.01	0.098	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	03/24/76-12/01/82	6	0.03	0.04	0.09	0.	0.001	0.031	**	**	**	**
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	03/24/76-07/23/96	28	0.02	0.026	0.12	0.005	0.001	0.024	0.01	0.01	0.03	0.052
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/24/76-08/31/83	7	0.01	0.014	0.03	0.005	0.	0.009	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/24/76-10/05/83	11	1.3	2.709	10.	0.6	10.205	3.195	0.62	0.9	2.7	9.6
00900	HARDNESS, TOTAL (MG/L AS CaCO3)	03/24/76-03/10/83	10	220.	225.	240.	210.	94.444	9.718	211.	220.	232.5	240.
00902	HARDNESS, NON-CARBONATE (MG/L AS CaCO3)	03/24/76-08/12/82	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00915p	CALCIUM, DISSOLVED (MG/L AS Ca)	03/24/76-07/23/96	28	49.5	50.	56.	44.	7.852	2.802	47.	48.	51.	55.1
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/24/76-07/23/96	28	24.	23.714	25.	18.	1.767	1.329	22.9	23.25	24.	25.
00930p	SODIUM, DISSOLVED (MG/L AS Na)	03/24/76-07/23/96	24	24.	23.875	28.	19.	2.636	1.624	22.	23.	24.75	25.5
00931	SODIUM ADSORPTION RATIO	03/24/76-03/10/83	7	0.7	0.686	0.8	0.6	0.005	0.069	**	**	**	**
00932	SODIUM, PERCENT	03/24/76-03/10/83	7	18.	18.	20.	16.	2.	1.414	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	03/24/76-07/23/96	24	2.05	2.025	2.4	1.3	0.052	0.229	1.75	1.9	2.2	2.3
00940p	CHLORIDE,TOTAL IN WATER MG/L	03/24/76-07/23/96	25	13.	13.12	16.	10.	2.027	1.424	11.6	12.	14.5	15.
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/24/76-07/23/96	28	9.	8.689	12.	0.3	4.703	2.169	6.8	8.	10.	11.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	03/24/76-07/23/96	24	0.2	0.217	0.3	0.05	0.004	0.065	0.125	0.2	0.3	0.3
00955	SILICA, DISSOLVED (MG/L AS SiO2)	03/24/76-07/03/91	9	18.	18.111	20.	15.	2.611	1.616	15.	17.	19.5	20.
01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/22/86-07/23/96	15	17.	16.467	21.	8.	8.41	2.9	11.6	16.	18.	19.8
01002p	ARSENIC, TOTAL (UG/L AS AS)	03/24/76-07/23/96	22	17.	16.773	22.	12.	5.232	2.287	14.	15.	19.	19.
01005	BARIUM, DISSOLVED (UG/L AS Ba)	10/22/86-07/23/96	15	180.	163.733	190.	26.	1560.495	39.503	100.4	160.	180.	184.
01020p	BORON, DISSOLVED (UG/L AS B)	03/24/76-08/30/94	22	160.	165.455	200.	120.	264.069	16.25	150.	160.	170.	190.
01022p	BORON, TOTAL (UG/L AS B)	03/24/76-07/23/96	9	190.	207.778	300.	170.	1944.444	44.096	170.	175.	235.	300.
01025p	CADMIUM, DISSOLVED (UG/L AS CD)	03/24/76-07/23/96	16 ##	0.5	0.5	1.	0.	0.033	0.183	0.35	0.5	0.5	0.65
01027p	CADMIUM, TOTAL (UG/L AS CD)	03/24/76-07/23/96	28 ##	0.5	2.607	15.	0.5	16.284	4.035	0.5	0.5	4.	10.
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	01/21/81-07/23/96	19 ##	0.5	1.237	5.	0.5	1.427	1.195	0.5	0.5	2.	3.
01034p	CHROMIUM, TOTAL (UG/L AS CR)	03/24/76-07/23/96	22	2.	2.864	10.	0.	10.1	3.178	0.	0.875	3.25	10.
01040	COPPER, DISSOLVED (UG/L AS CU)	10/05/83-07/23/96	15	1.	1.733	5.	0.5	2.674	1.635	0.5	0.5	2.	5.
01042p	COPPER, TOTAL (UG/L AS CU)	03/24/76-07/23/96	26	3.	6.635	50.	0.5	114.931	10.721	0.5	2.	6.25	21.8
01045p	IRON, TOTAL (UG/L AS FE)	03/24/76-07/23/96	22	155.	233.182	1800.	60.	128165.584	358.002	60.	90.	230.	309.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/24/76-07/23/96	23	7.	11.13	50.	1.5	123.096	11.095	2.9	5.	13.	28.4
01049	LEAD, DISSOLVED (UG/L AS PB)	01/21/81-07/23/96	20 ##	0.5	1.625	10.	0.5	5.26	2.293	0.5	0.5	2.375	4.75
01051p	LEAD, TOTAL (UG/L AS PB)	03/24/76-07/23/96	22 ##	2.	20.386	100.	0.5	1460.427	38.216	0.5	0.5	12.5	100.
01055p	MANGANESE, TOTAL (UG/L AS MN)	03/24/76-07/23/96	22	10.	15.455	60.	5.	152.165	12.335	5.	5.	20.	27.

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #3: 5/01 to 6/30 - Station TUZI0098

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	03/24/76-07/23/96	23	5.	6.783	30.	3.	36.814	6.067	3.4	4.	6.	15.2
01075	SILVER, DISSOLVED (UG/L AS AG)	10/22/86-07/23/96	15 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
01090	ZINC, DISSOLVED (UG/L AS ZN)	01/21/81-07/23/96	19	4.	4.158	9.	1.5	5.501	2.346	1.5	1.5	6.	7.
01092p	ZINC, TOTAL (UG/L AS ZN)	03/24/76-07/23/96	22 ##	5.	14.091	50.	5.	199.134	14.111	5.	5.	30.	37.
01145	SELENIUM, DISSOLVED (UG/L AS SE)	10/22/86-07/23/96	15 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
01147p	SELENIUM, TOTAL (UG/L AS SE)	03/24/76-07/23/96	25 ##	0.5	0.56	1.	0.5	0.028	0.166	0.5	0.5	0.5	1.
31625p	FECAL COLIFORM, MF,M-FC, 0.7 UM	11/10/76-11/21/95	26	7.	15.923	104.	2.	576.874	24.018	2.7	3.	14.5	53.2
31625p	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	11/10/76-11/21/95	26	0.841	0.919	2.017	0.301	0.216	0.465	0.424	0.477	1.161	1.709
31625p	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			8.304								
31673p	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/20/77-11/21/95	15	150.	450.133	2600.	7.	491873.41	701.337	8.8	20.	575.	1748.
31673p	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/20/77-11/21/95	15	2.176	2.108	3.415	0.845	0.649	0.806	0.938	1.301	2.76	3.209
31673p	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			128.304								
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	03/24/76-10/05/83	11	3.	8.091	26.	0.	91.291	9.555	0.	1.	17.	25.
39036	ALKALINITY,FILTERED SAMPLE AS CaCO3 MG/L	10/19/88-06/25/96	13	250.	249.538	260.	235.	48.769	6.983	238.2	245.	256.	258.8
39086	ALKALINITY, WATER,DISS,INCR TIT,FIELD,AS CaCO3,MG/L	10/22/86-07/23/96	17	251.	251.941	264.	237.	67.309	8.204	238.6	246.5	258.5	262.4
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/24/76-07/23/96	25	271.	268.84	314.	184.	579.307	24.069	246.4	255.5	285.5	290.8
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	03/24/76-03/10/83	7	290.	288.714	303.	271.	127.238	11.28	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	03/24/76-02/01/83	10	59.4	58.45	64.8	48.1	28.525	5.341	48.63	54.675	62.95	64.63
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	03/24/76-02/01/83	10	0.38	0.379	0.39	0.36	0.	0.011	0.361	0.37	0.39	0.39
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	10/27/82-08/30/94	4 ##	0.008	0.008	0.01	0.005	0.	0.003	**	**	**	**
71887	NITROGEN, TOTAL, AS NO3 - MG/L	03/24/76-02/01/83	8	1.9	3.65	17.	1.2	29.28	5.411	**	**	**	**
71900p	MERCURY, TOTAL (UG/L AS HG)	03/24/76-07/23/96	22 ##	0.05	0.082	0.25	0.05	0.005	0.07	0.05	0.05	0.063	0.25
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/11/78-08/30/94	21	16.	28.619	223.	3.	2127.348	46.123	5.	9.5	31.5	43.

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #4: 7/01 to 10/09 - Station TUZI0098

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	10/22/86-06/25/96	25	59.	64.8	91.	51.	174.25	13.2	55.	55.5	70.	90.4
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/24/76-07/23/96	49	22.	22.684	28.5	18.	8.049	2.837	19.	20.75	24.75	27.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/10/78-07/23/96	35	29.	29.543	41.	17.5	34.182	5.847	22.4	24.5	34.	36.9
00025	BAROMETRIC PRESSURE (MM OF HG)	10/27/82-07/23/96	30	677.	677.233	681.	670.	6.944	2.635	674.1	675.	680.	680.
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/24/76-06/25/96	47	80.	85.617	190.	59.	442.024	21.024	72.8	77.	86.	101.4
00065	STAGE, STREAM (FEET)	10/27/82-06/25/96	30	0.095	0.285	1.19	0.03	0.137	0.37	0.041	0.07	0.275	1.05
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/12/79-07/23/96	28	13.5	44.857	550.	0.2	10616.257	103.035	0.49	2.775	52.5	83.8
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/24/76-07/23/96	49	492.	486.51	720.	260.	3685.255	60.706	456.	477.	505.5	516.
00300p	OXYGEN, DISSOLVED MG/L	03/24/76-07/23/96	43	8.3	8.14	10.4	0.	2.288	1.513	7.1	7.6	8.9	9.4
00340p	COD, .25N K2CR2O7 MG/L	03/24/76-07/23/96	35	13.	17.943	170.	5.	796.761	28.227	5.	5.	16.	29.2
00400p	PH (STANDARD UNITS)	03/24/76-07/23/96	48	8.2	8.208	8.5	7.2	0.039	0.197	8.	8.17	8.3	8.4
00400p	CONVERTED PH (STANDARD UNITS)	03/24/76-07/23/96	48	8.2	8.134	8.5	7.2	0.044	0.211	8.	8.17	8.3	8.4
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/24/76-07/23/96	48	0.006	0.007	0.063	0.003	0.	0.008	0.004	0.005	0.007	0.01
00403	PH, LAB, STANDARD UNITS SU	01/21/81-07/23/96	37	8.2	8.13	8.6	7.6	0.035	0.188	7.9	8.	8.2	8.3
00403	CONVERTED PH, LAB, STANDARD UNITS	01/21/81-07/23/96	37	8.2	8.088	8.6	7.6	0.037	0.193	7.9	8.	8.2	8.3
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/21/81-07/23/96	37	0.006	0.008	0.025	0.003	0.	0.004	0.005	0.006	0.01	0.013
00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	03/24/76-04/02/91	29	230.	193.241	258.	0.	8453.047	91.94	0.	192.5	250.	255.
00440	BICARBONATE ION (MG/L AS HCO3)	03/24/76-11/17/88	17	280.	186.647	315.	0.	20540.868	143.321	0.	0.	300.	311.
00445	CARBONATE ION (MG/L AS CO3)	03/24/76-11/17/88	17	0.	0.059	1.	0.	0.059	0.243	0.	0.	0.	0.2
00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	10/22/86-07/23/96	28	0.	3.964	48.	0.	90.776	9.528	0.	0.	4.75	12.2
00453	BICARBONATE,WATER,DISS,INCR TIT, FIELD,AS HCO3,MG/L	10/22/86-07/23/96	28	305.5	293.786	329.	177.	1391.36	37.301	219.2	280.75	319.5	328.1
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/24/79-07/23/96	36	30.5	72.25	423.	1.	9588.307	97.92	5.7	12.25	85.5	202.4
00600	NITROGEN, TOTAL (MG/L AS N)	03/24/76-02/01/83	16	0.55	0.884	5.4	0.16	1.548	1.244	0.188	0.38	0.837	2.53
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/16/81-07/23/96	23	0.01	0.019	0.08	0.005	0.	0.019	0.005	0.005	0.02	0.054
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/24/76-07/23/96	48	0.275	0.43	4.9	0.05	0.503	0.709	0.1	0.1	0.5	0.775
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/24/76-07/23/96	44	0.095	0.153	0.59	0.01	0.02	0.141	0.035	0.05	0.25	0.335
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	03/24/76-08/31/83	15	0.1	0.304	2.3	0.	0.328	0.573	0.012	0.03	0.3	1.22
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	03/24/76-12/01/82	14	0.045	0.051	0.12	0.	0.001	0.036	0.	0.03	0.09	0.105

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

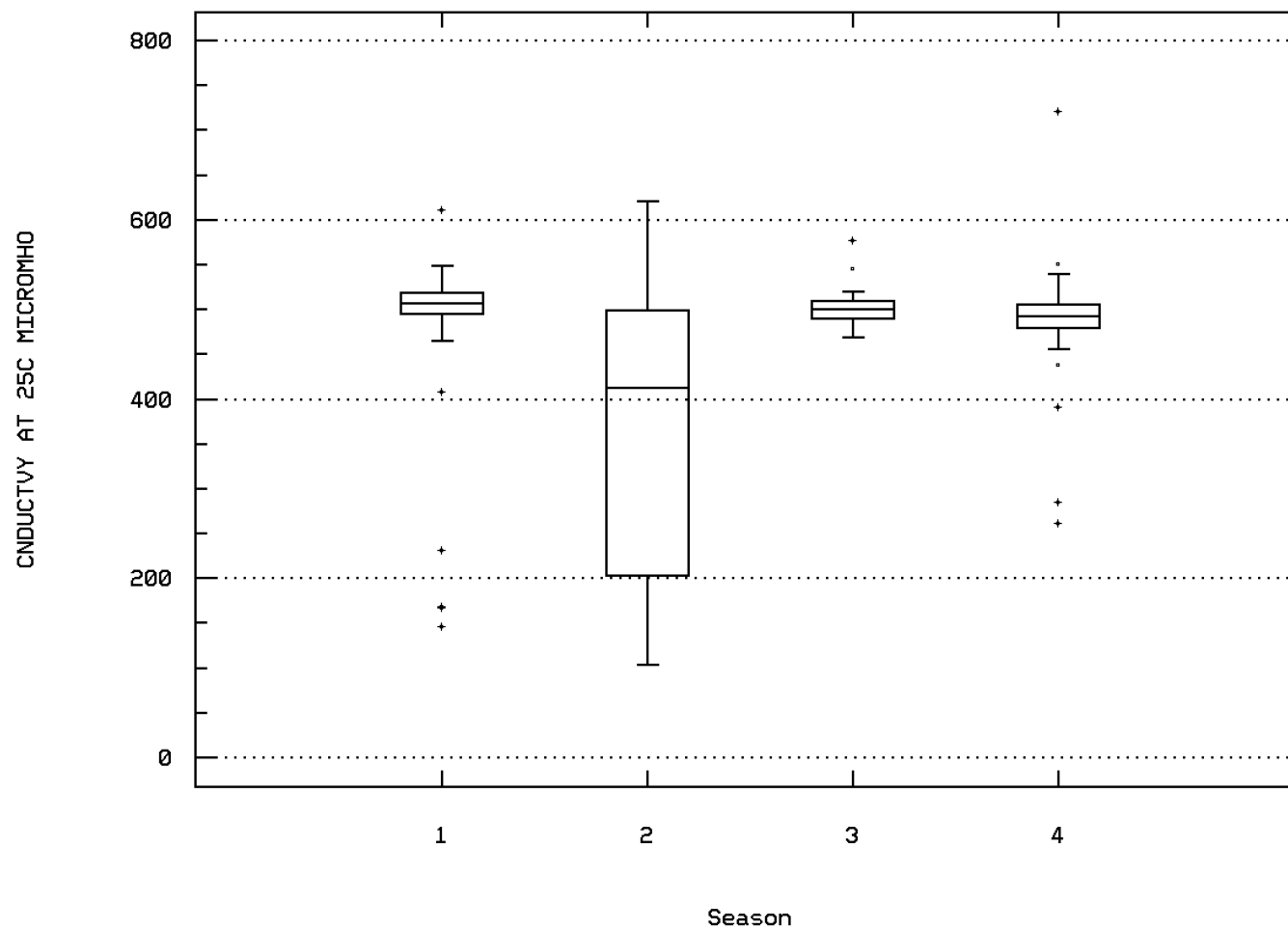
Seasonal Analysis for Season #4: 7/01 to 10/09 - Station TUZI0098

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	03/24/76-07/23/96	48	0.035	0.171	3.4	0.005	0.284	0.533	0.01	0.02	0.105	0.215
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/24/76-08/31/83	15	0.01	0.017	0.04	0.	0.	0.011	0.003	0.01	0.03	0.034
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/24/76-10/05/83	19	1.4	4.879	59.	0.2	173.38	13.167	0.9	1.	3.1	5.
00900	HARDNESS, TOTAL (MG/L AS CaCO3)	03/24/76-03/10/83	17	220.	218.235	240.	200.	90.441	9.51	208.	210.	220.	232.
00902	HARDNESS, NON-CARBONATE (MG/L AS CaCO3)	03/24/76-08/12/82	15	0.	16.067	210.	0.	2942.067	54.241	0.	0.	0.	102.6
00915p	CALCIUM, DISSOLVED (MG/L AS Ca)	03/24/76-07/23/96	48	50.	49.521	58.	36.	14.17	3.764	44.9	47.	52.	53.1
00925p	MAGNESIUM, DISSOLVED (MG/L AS Mg)	03/24/76-07/23/96	48	23.	22.583	25.	11.	6.801	2.608	20.8	22.	24.	24.
00930p	SODIUM, DISSOLVED (MG/L AS Na)	03/24/76-07/23/96	43	24.	23.233	27.	11.	9.897	3.146	21.	22.	25.	26.
00931	SODIUM ADSORPTION RATIO	03/24/76-03/10/83	14	0.7	0.714	0.8	0.6	0.004	0.066	0.6	0.7	0.8	0.8
00932	SODIUM, PERCENT	03/24/76-03/10/83	14	19.5	21.286	32.	17.	23.604	4.858	17.5	18.	22.25	30.5
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	03/24/76-07/23/96	43	2.2	2.216	2.9	1.8	0.045	0.211	2.	2.1	2.3	2.46
00940p	CHLORIDE, TOTAL IN WATER MG/L	03/24/76-07/23/96	44	13.	13.273	18.	7.	4.947	2.224	11.	12.	15.	16.
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/24/76-07/23/96	49	8.	8.337	13.	0.5	5.056	2.249	7.	7.	9.	12.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	03/24/76-07/23/96	43	0.2	0.209	0.3	0.1	0.003	0.057	0.1	0.2	0.2	0.3
00955	SILICA, DISSOLVED (MG/L AS SiO2)	03/24/76-07/03/91	16	19.5	19.5	23.	17.	2.667	1.633	17.	18.25	20.	22.3
01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/22/86-07/23/96	26	17.	15.923	19.	9.	10.154	3.187	9.7	14.75	18.	18.3
01002p	ARSENIC, TOTAL (UG/L AS AS)	03/24/76-07/23/96	39	16.	15.641	20.	7.	9.289	3.048	9.	15.	18.	18.
01005	BARIUM, DISSOLVED (UG/L AS Ba)	10/22/86-07/23/96	27	170.	159.	180.	49.	976.538	31.25	118.8	150.	180.	180.
01020p	BORON, DISSOLVED (UG/L AS B)	03/24/76-08/30/94	40	160.	161.75	190.	80.	584.038	24.167	142.	160.	170.	189.
01022p	BORON, TOTAL (UG/L AS B)	03/24/76-07/23/96	17	190.	185.294	240.	50.	1663.971	40.792	138.	175.	200.	240.
01025p	CADMIUM, DISSOLVED (UG/L AS Cd)	03/24/76-07/23/96	26 ###	0.5	0.615	2.	0.5	0.106	0.326	0.5	0.5	0.5	1.
01027p	CADMIUM, TOTAL (UG/L AS Cd)	03/24/76-07/23/96	47 ###	0.5	2.362	11.	0.	12.301	3.507	0.5	0.5	3.	10.
01030	CHROMIUM, DISSOLVED (UG/L AS Cr)	01/21/81-07/23/96	31 ###	0.5	1.484	7.	0.5	2.375	1.541	0.5	0.5	2.	3.8
01034p	CHROMIUM, TOTAL (UG/L AS Cr)	03/24/76-07/23/96	38	2.5	5.118	28.	0.	40.587	6.371	0.	0.5	10.	10.8
01040	COPPER, DISSOLVED (UG/L AS Cu)	10/05/83-07/23/96	27	1.	2.167	10.	0.5	5.75	2.398	0.5	0.5	2.	7.
01042p	COPPER, TOTAL (UG/L AS Cu)	03/24/76-07/23/96	45	8.	17.189	200.	0.5	1209.071	34.772	1.6	4.	10.5	38.
01045p	IRON, TOTAL (UG/L AS Fe)	03/24/76-07/23/96	39	540.	1619.231	20000.	40.	12365680.972	3516.487	50.	270.	1700.	2600.
01046p	IRON, DISSOLVED (UG/L AS Fe)	03/24/76-07/23/96	41	7.	18.805	210.	1.5	1210.086	34.786	2.	5.	20.	40.
01049	LEAD, DISSOLVED (UG/L AS Pb)	01/21/81-07/23/96	34 ###	0.5	1.25	7.	0.5	2.14	1.463	0.5	0.5	1.375	2.75
01051p	LEAD, TOTAL (UG/L AS Pb)	03/24/76-07/23/96	38	4.5	23.868	100.	0.5	1364.063	36.933	0.5	2.	23.5	100.
01055p	MANGANESE, TOTAL (UG/L AS Mn)	03/24/76-07/23/96	39	40.	72.821	720.	5.	16397.099	128.051	5.	20.	80.	120.
01056p	MANGANESE, DISSOLVED (UG/L AS Mn)	03/24/76-07/23/96	41	6.	7.341	20.	1.	21.63	4.651	3.	5.	8.5	16.
01075	SILVER, DISSOLVED (UG/L AS Ag)	10/22/86-07/23/96	26 ###	0.5	0.942	7.	0.5	1.767	1.329	0.5	0.5	0.5	2.
01090	ZINC, DISSOLVED (UG/L AS Zn)	01/21/81-07/23/96	31	4.	6.306	43.	1.5	68.595	8.282	1.5	1.5	9.	13.
01092p	ZINC, TOTAL (UG/L AS Zn)	03/24/76-07/23/96	39	10.	22.436	120.	5.	787.989	28.071	5.	5.	20.	70.
01145	SELENIUM, DISSOLVED (UG/L AS Se)	10/22/86-07/23/96	26 ###	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
01147p	SELENIUM, TOTAL (UG/L AS Se)	03/24/76-07/23/96	45 ###	0.5	0.511	1.	0.5	0.006	0.075	0.5	0.5	0.5	0.5
31625p	FECAL COLIFORM, MF,M-FC, 0.7 UM	11/10/76-11/21/95	43	40.	302.256	8000.	0.	1518710.528	1232.36	6.2	17.	120.	350.
31625p	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	11/10/76-11/21/95	43	1.602	1.653	3.903	0.	0.526	0.725	0.781	1.23	2.079	2.543
31625p	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			44.973								
31673p	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/20/77-11/21/95	25	180.	519.08	6200.	0.	1483093.41	1217.823	6.8	76.5	425.	947.6
31673p	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/20/77-11/21/95	25	2.255	2.182	3.792	0.	0.623	0.789	0.821	1.862	2.627	2.973
31673p	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			152.087								
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	03/24/76-10/05/83	20	3.	4.55	11.	1.	11.734	3.426	1.	2.	8.	10.
39036	ALKALINITY, FILTERED SAMPLE AS CaCO3 MG/L	10/19/88-06/25/96	21	252.	247.048	269.	146.	663.348	25.756	233.2	238.5	262.5	267.6
39086	ALKALINITY, WATER, DISS, INCR TIT, FIELD, AS CaCO3, MG/L	10/22/86-07/23/96	28	253.5	247.393	270.	145.	703.062	26.515	230.4	242.5	261.75	269.1
70300p	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L	03/24/76-07/23/96	45	268.	260.444	298.	147.	964.253	31.052	221.8	250.	282.5	288.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	03/24/76-03/10/83	14	289.	284.643	309.	256.	243.016	15.589	258.	275.25	295.25	304.5
70302	SOLIDS, DISSOLVED-TONS PER DAY	03/24/76-02/01/83	18	58.15	56.633	75.4	43.3	69.776	8.353	44.2	51.775	59.825	68.56
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	03/24/76-02/01/83	18	0.37	0.357	0.41	0.2	0.002	0.049	0.281	0.348	0.39	0.401
70507	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	10/27/82-08/30/94	10	0.01	0.025	0.1	0.005	0.001	0.029	0.005	0.005	0.033	0.094
71887	NITROGEN, TOTAL, AS NO3 - MG/L	03/24/76-02/01/83	16	2.45	3.931	24.	0.7	30.634	5.535	0.84	1.675	3.7	11.33
71900p	MERCURY, TOTAL (UG/L AS Hg)	03/24/76-07/23/96	39 ###	0.05	0.092	0.4	0.05	0.008	0.089	0.05	0.05	0.05	0.25
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/11/78-08/30/94	31	49.	191.129	2760.	9.	270826.583	520.41	11.4	21.	101.	433.

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station: TUZI0098 Parameter Code: 00095

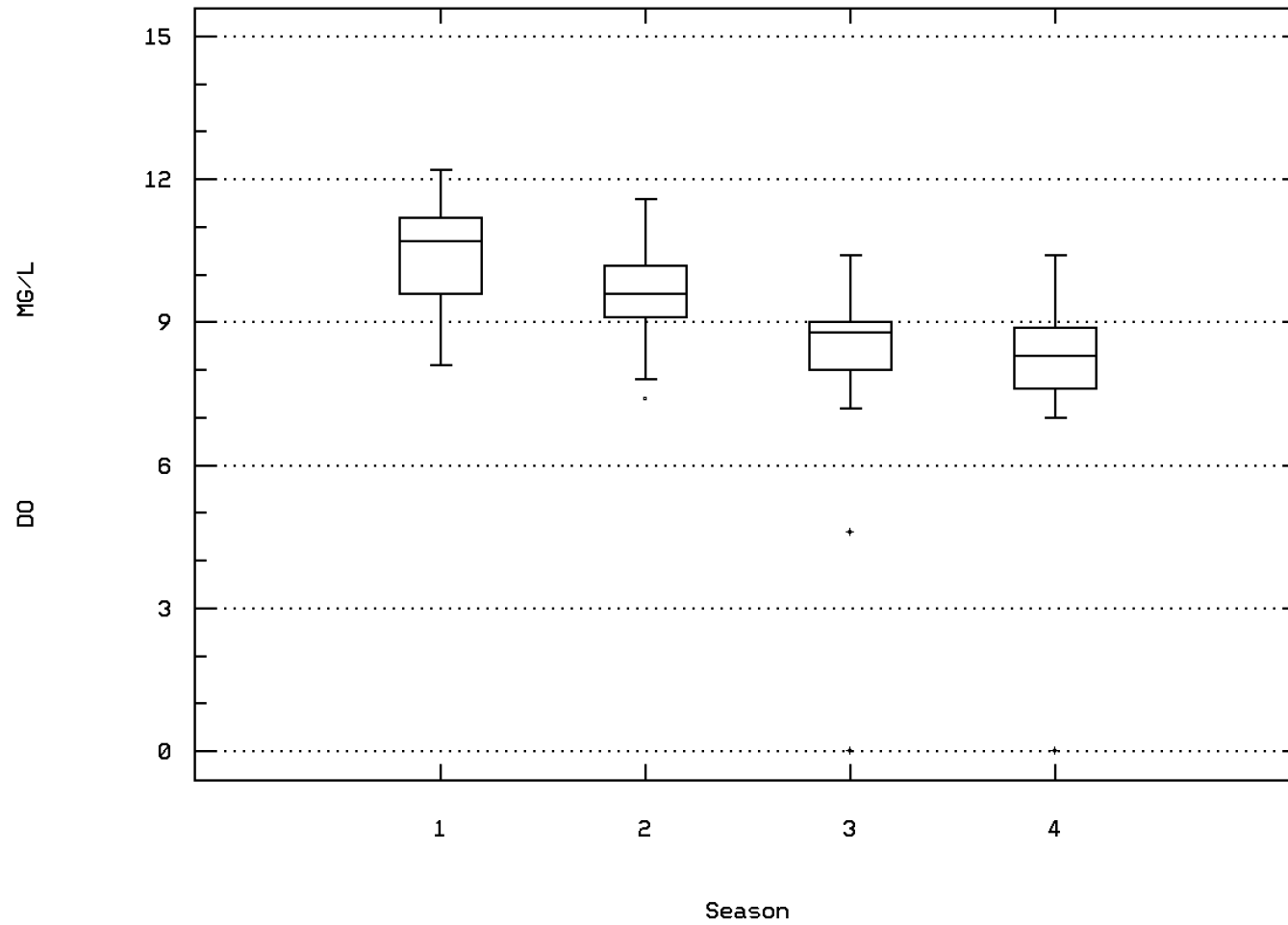
SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 00300

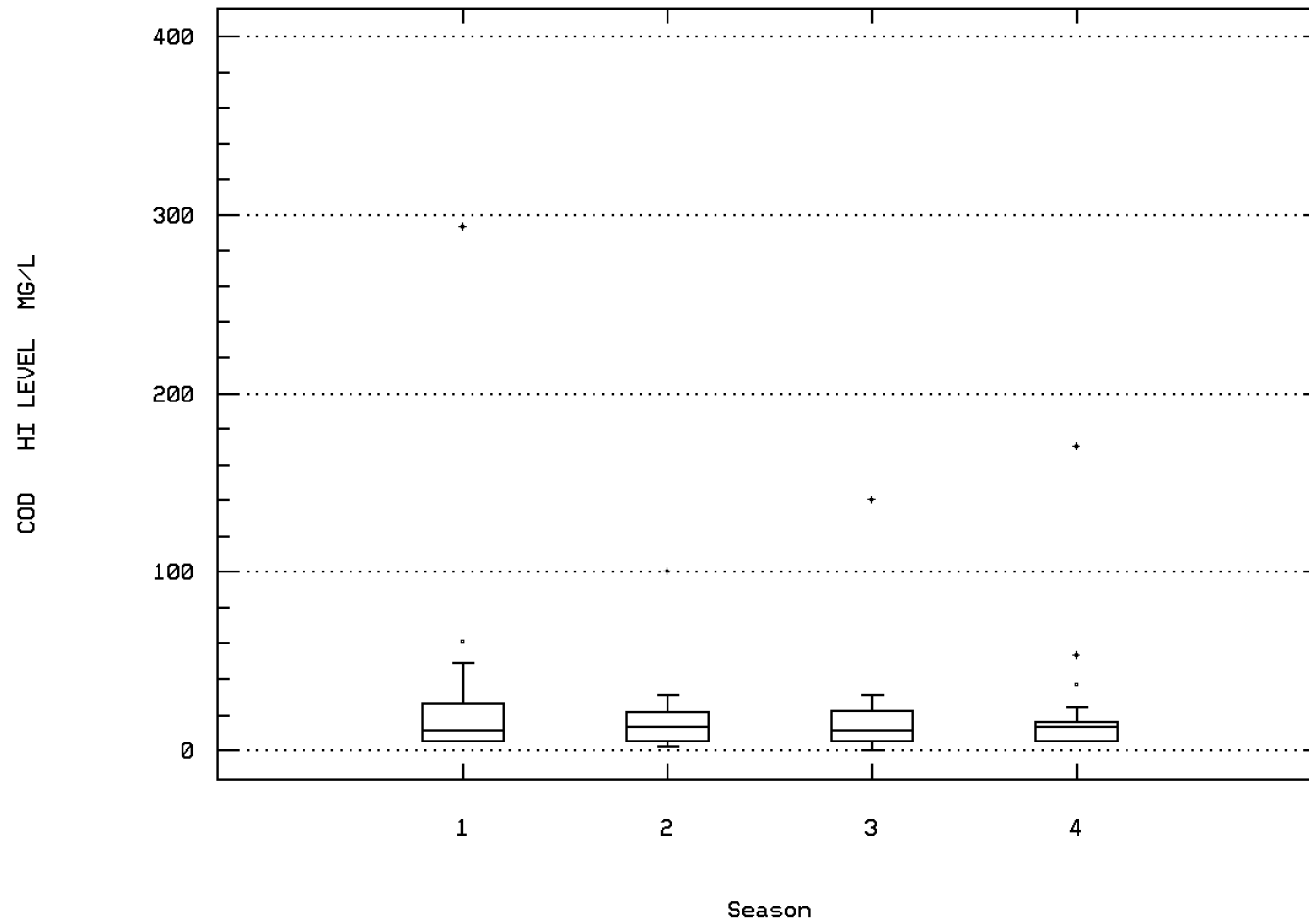
OXYGEN, DISSOLVED



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 00340

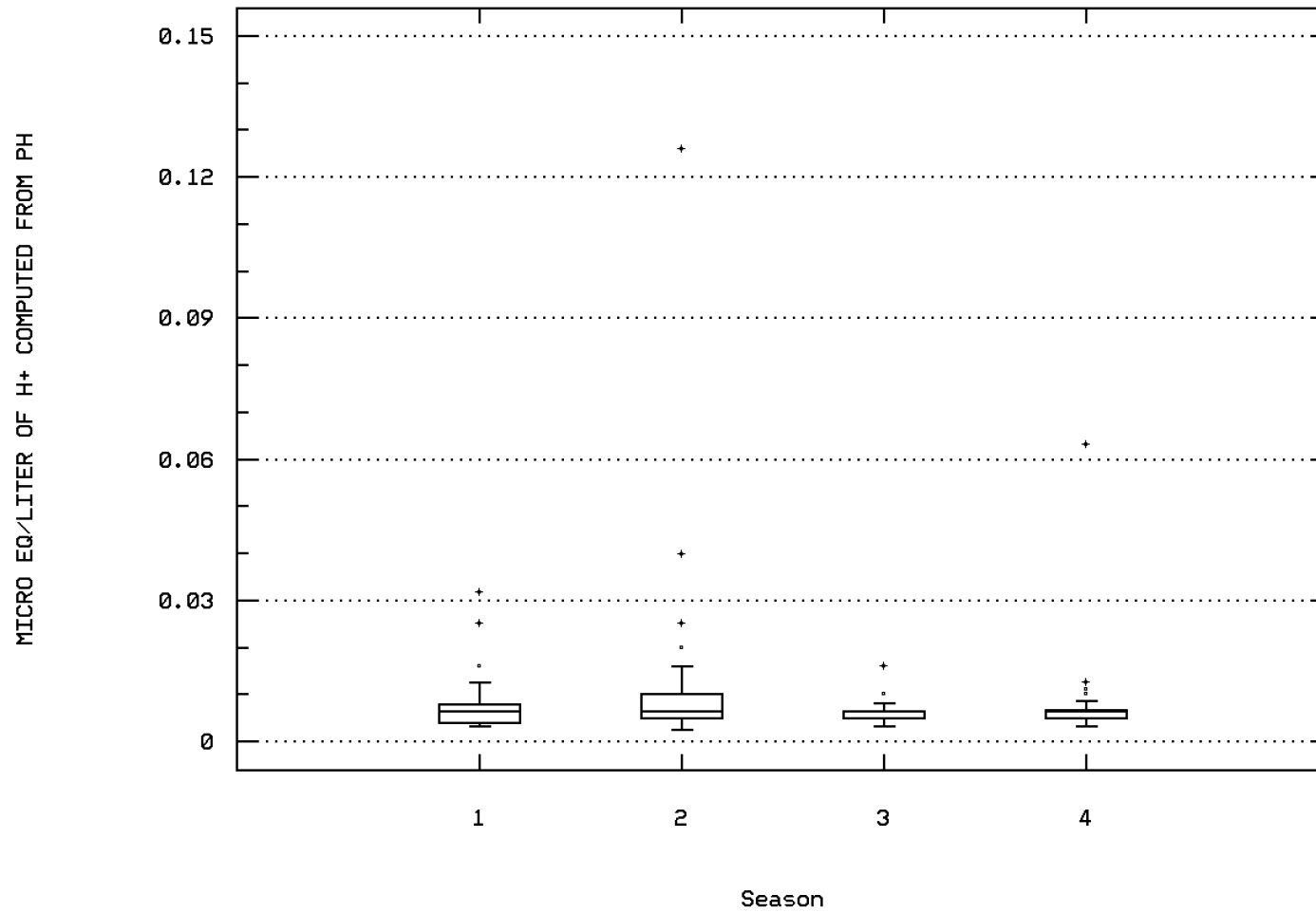
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VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 00400

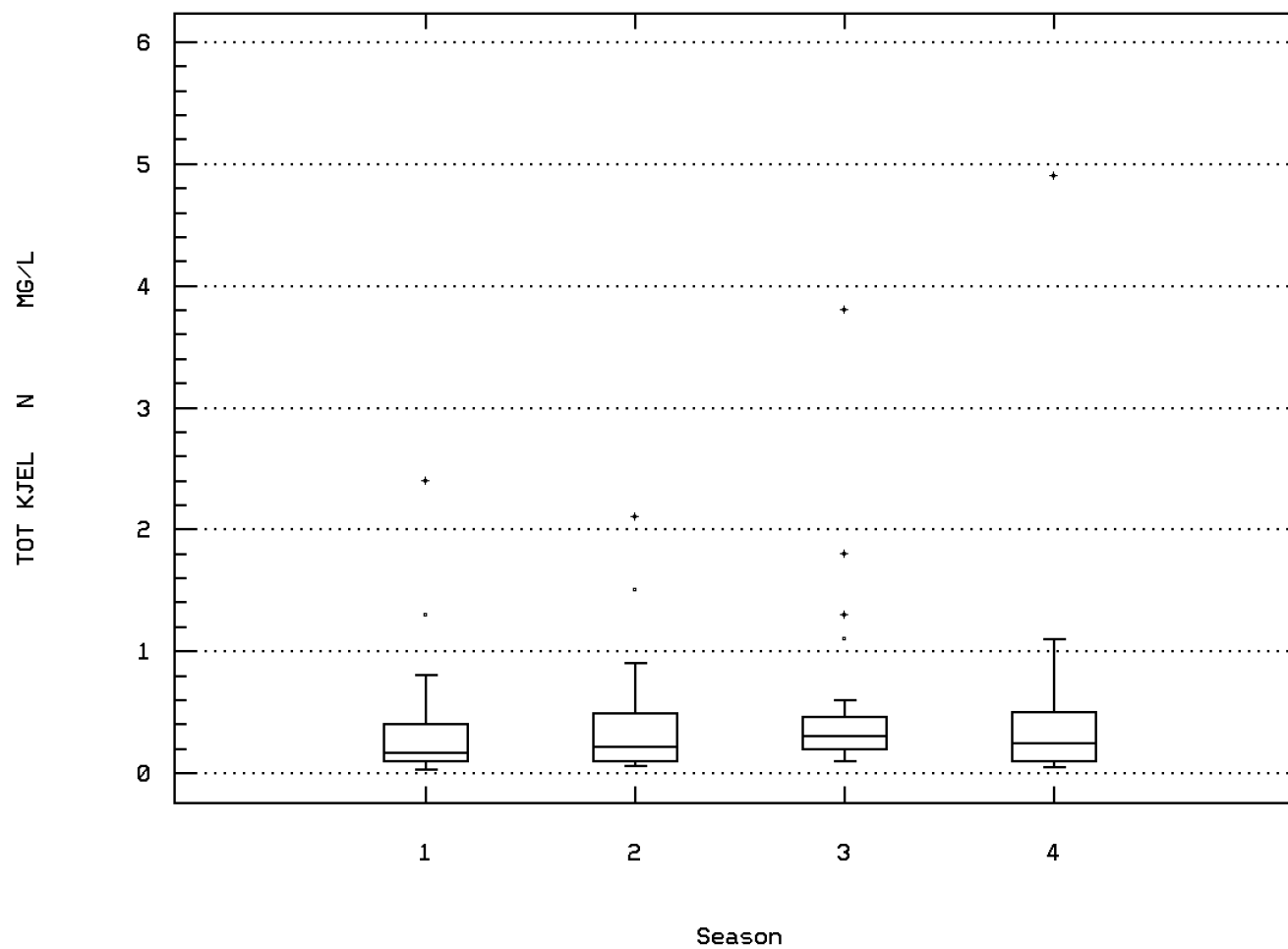
MICRO EQ/LITER OF H+ COMPUTED FROM PH



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 00625

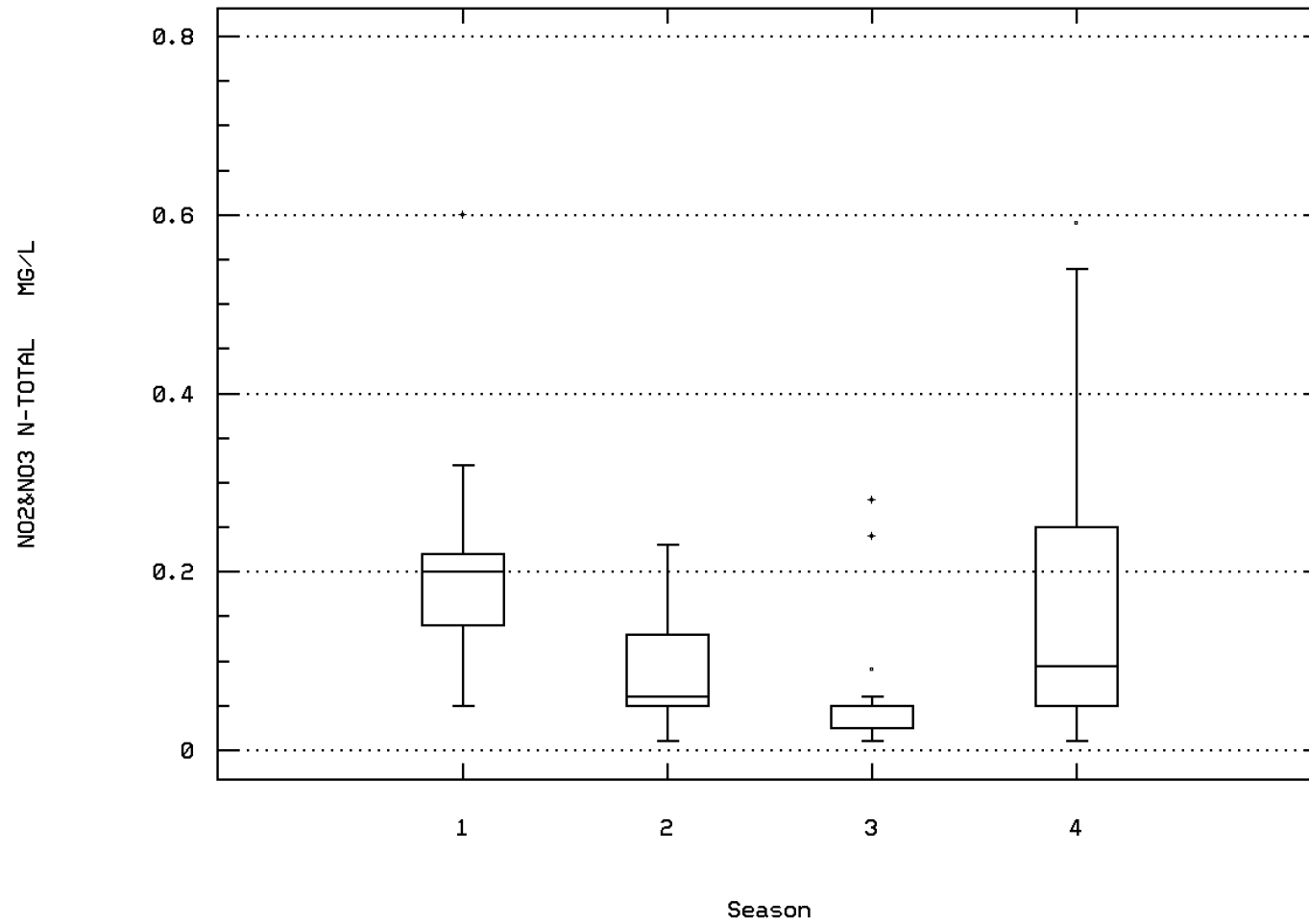
NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 00630

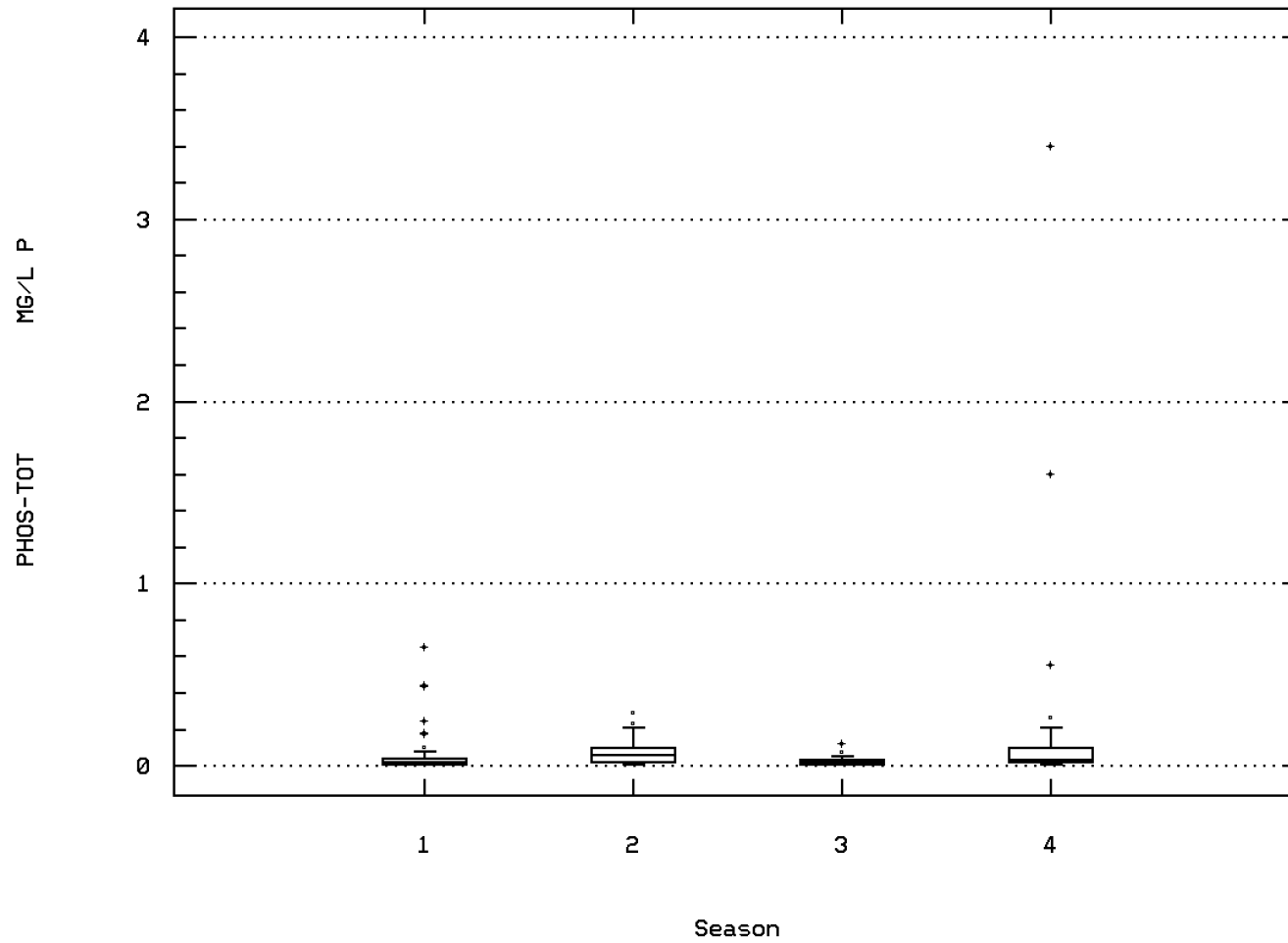
NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 00665

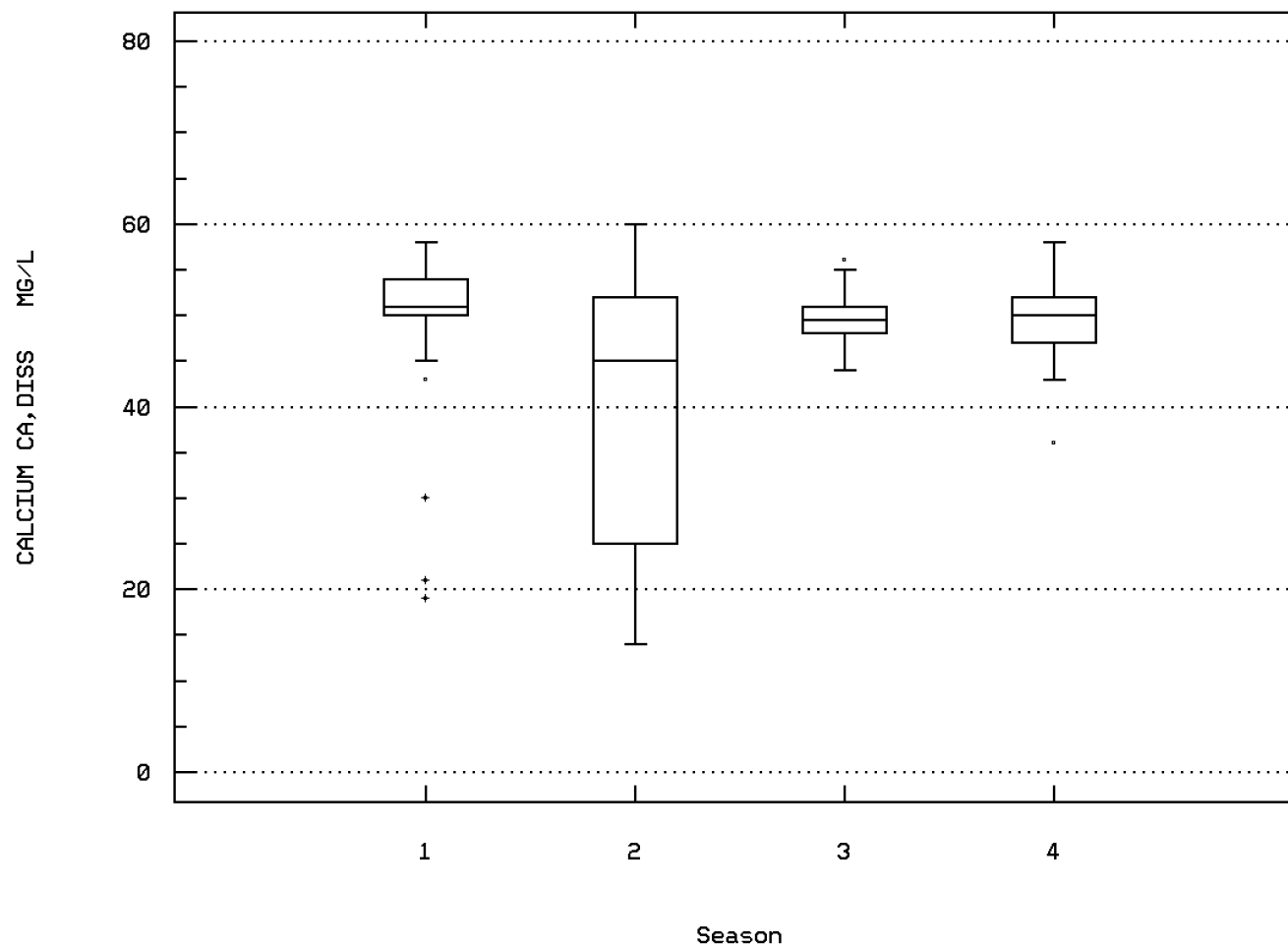
PHOSPHORUS, TOTAL (MG/L AS P)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 00915

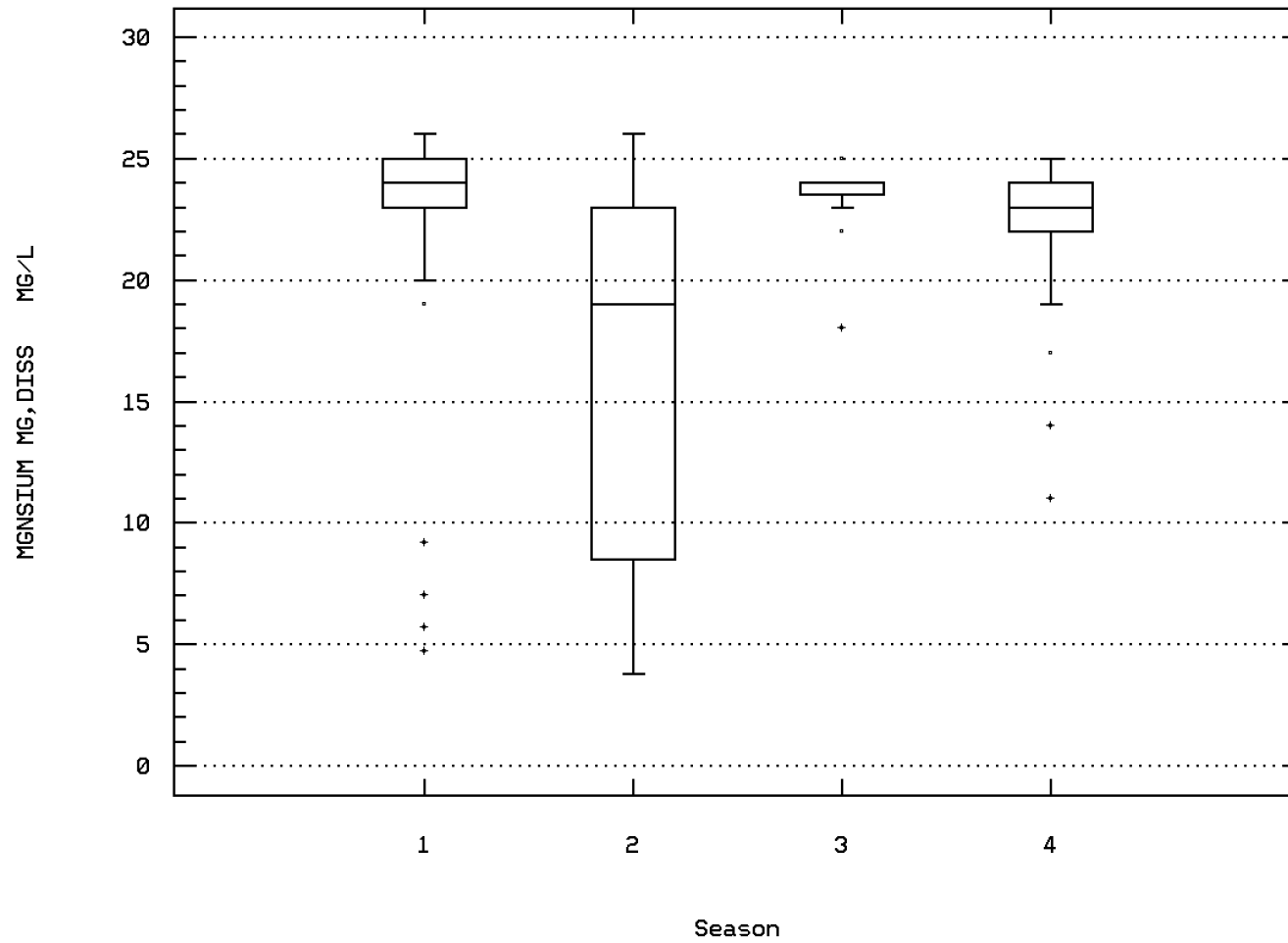
CALCIUM, DISSOLVED (MG/L AS CA)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 00925

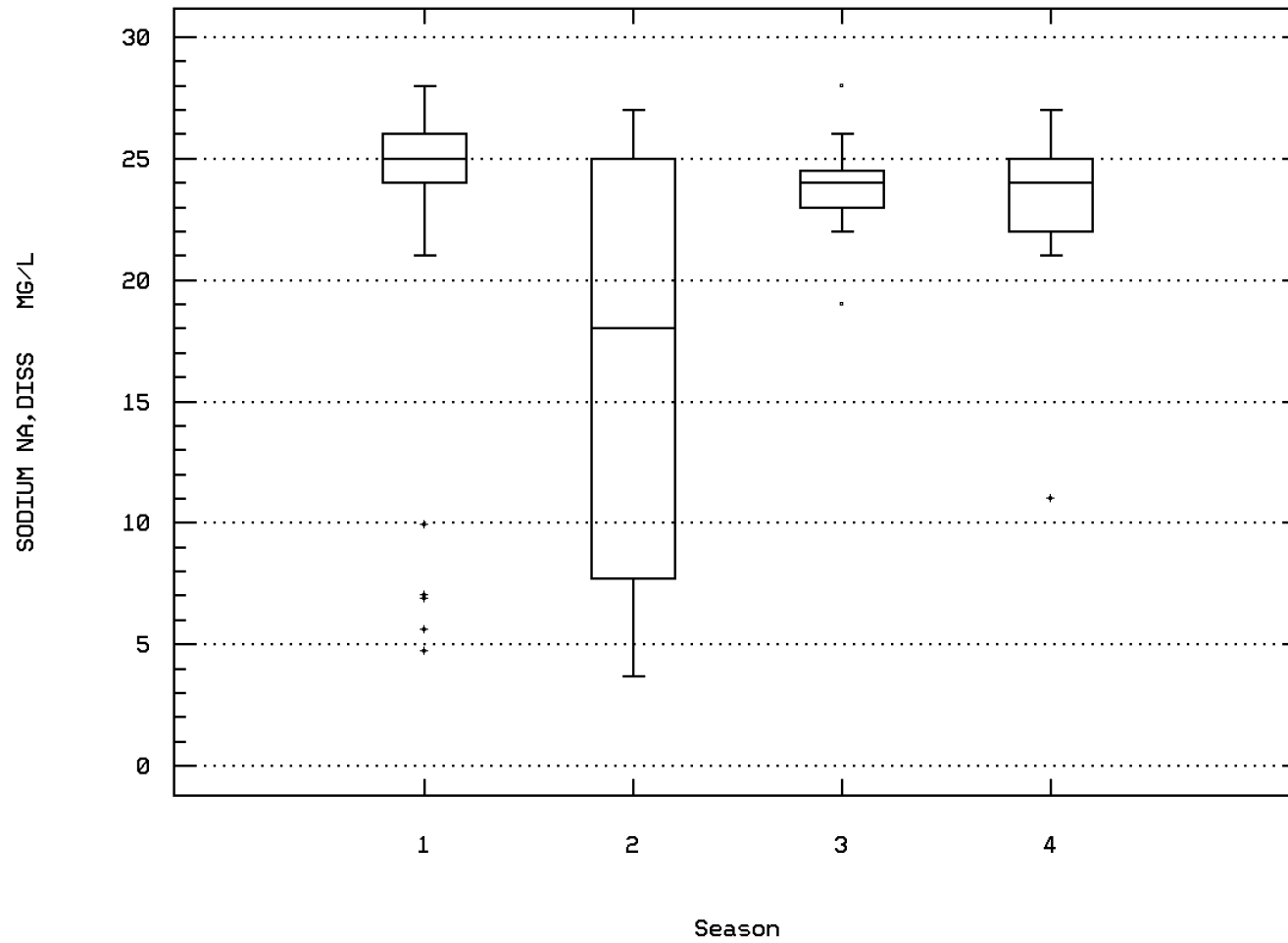
MAGNESIUM, DISSOLVED (MG/L AS MG)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 00930

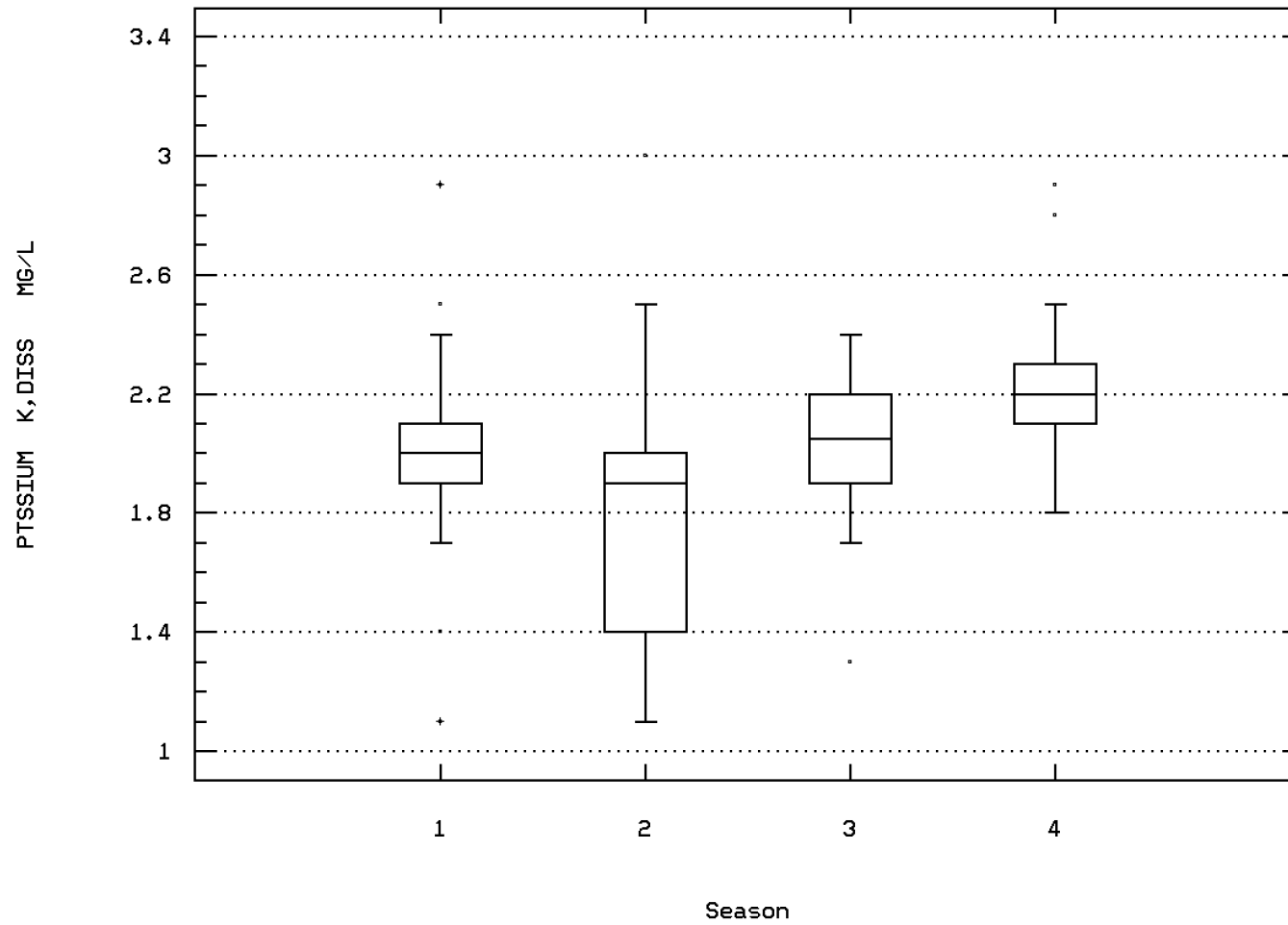
SODIUM, DISSOLVED (MG/L AS NA)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 00935

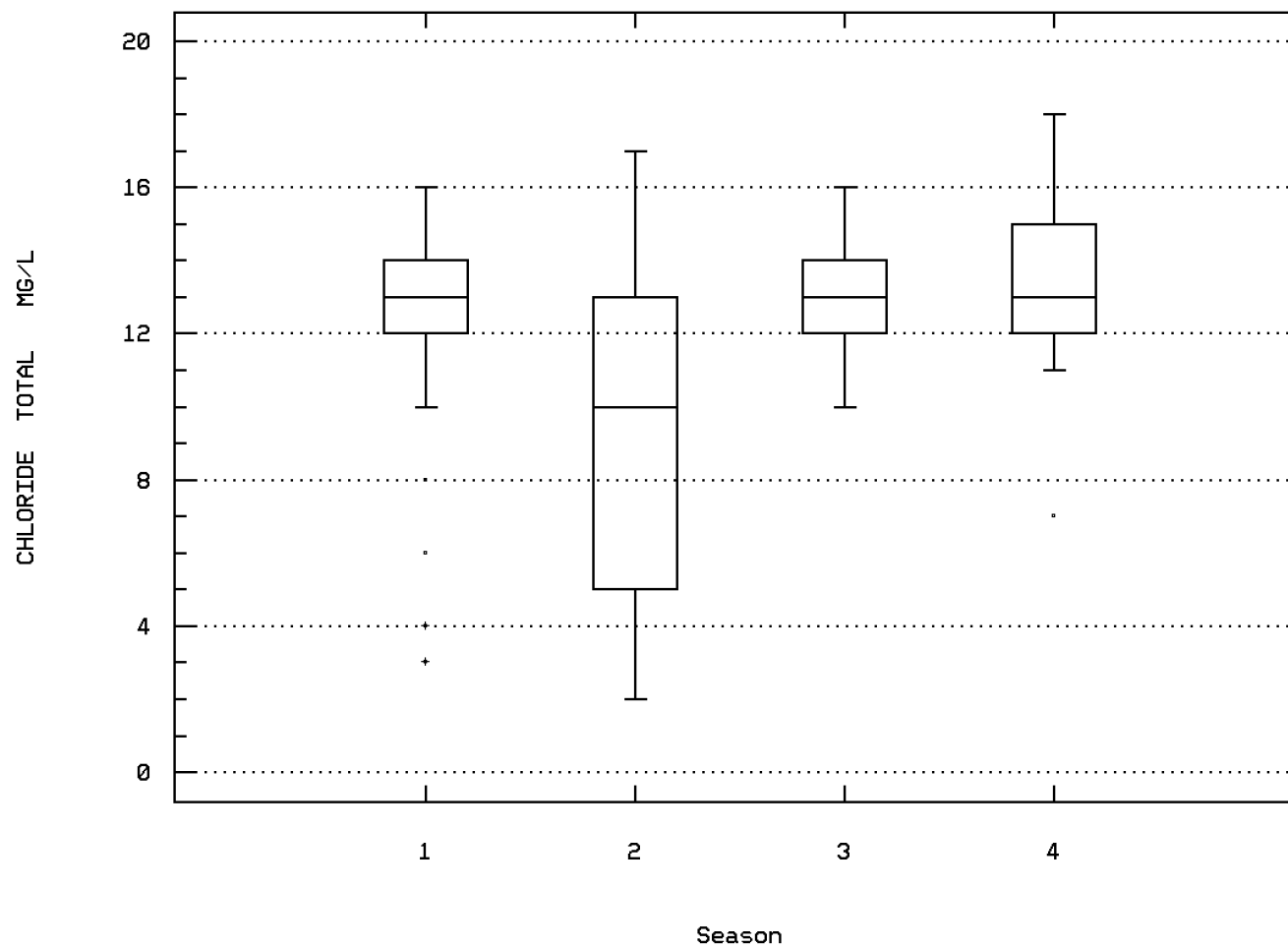
POTASSIUM, DISSOLVED (MG/L AS K)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 00940

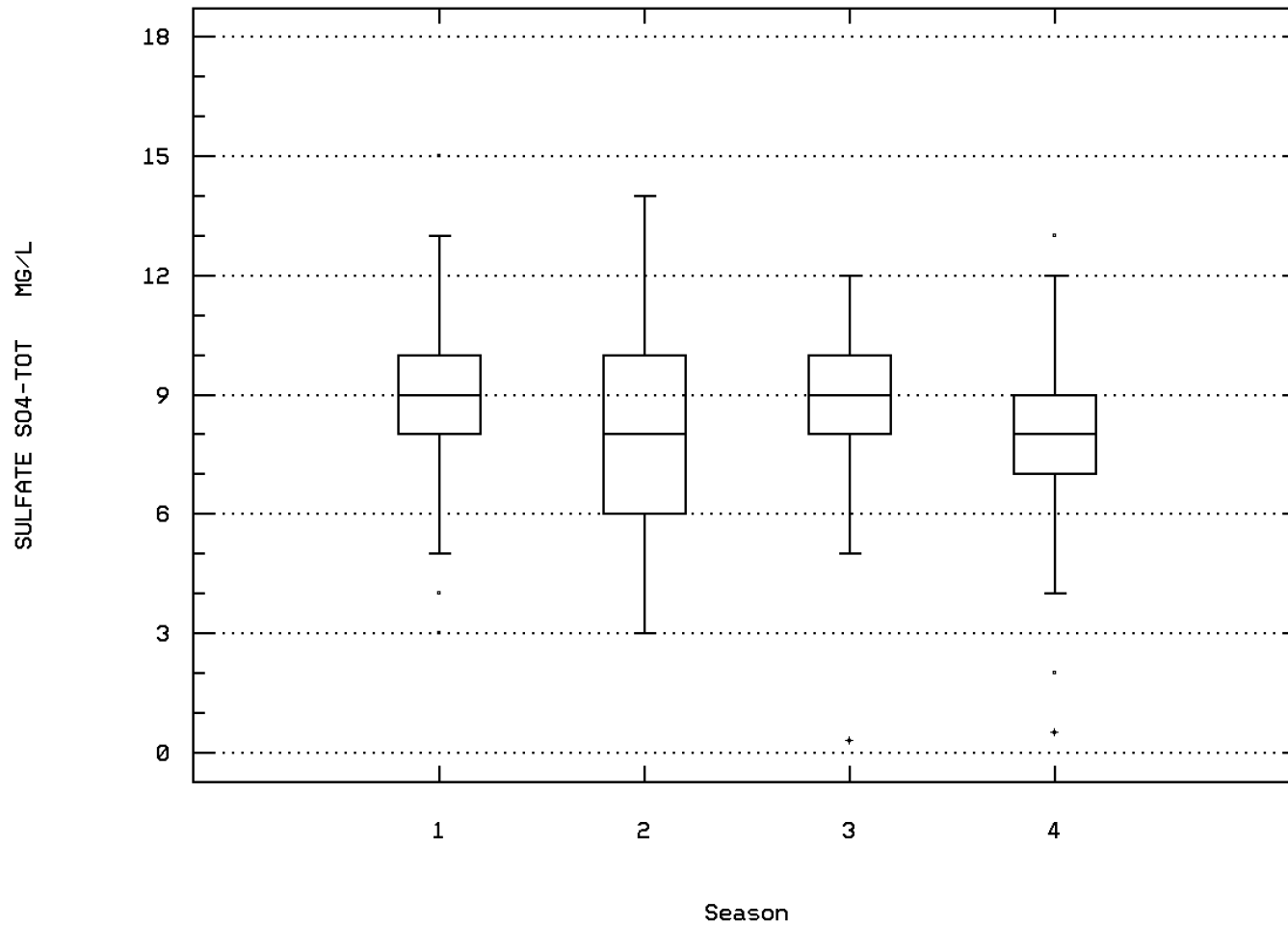
CHLORIDE, TOTAL IN WATER



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 00945

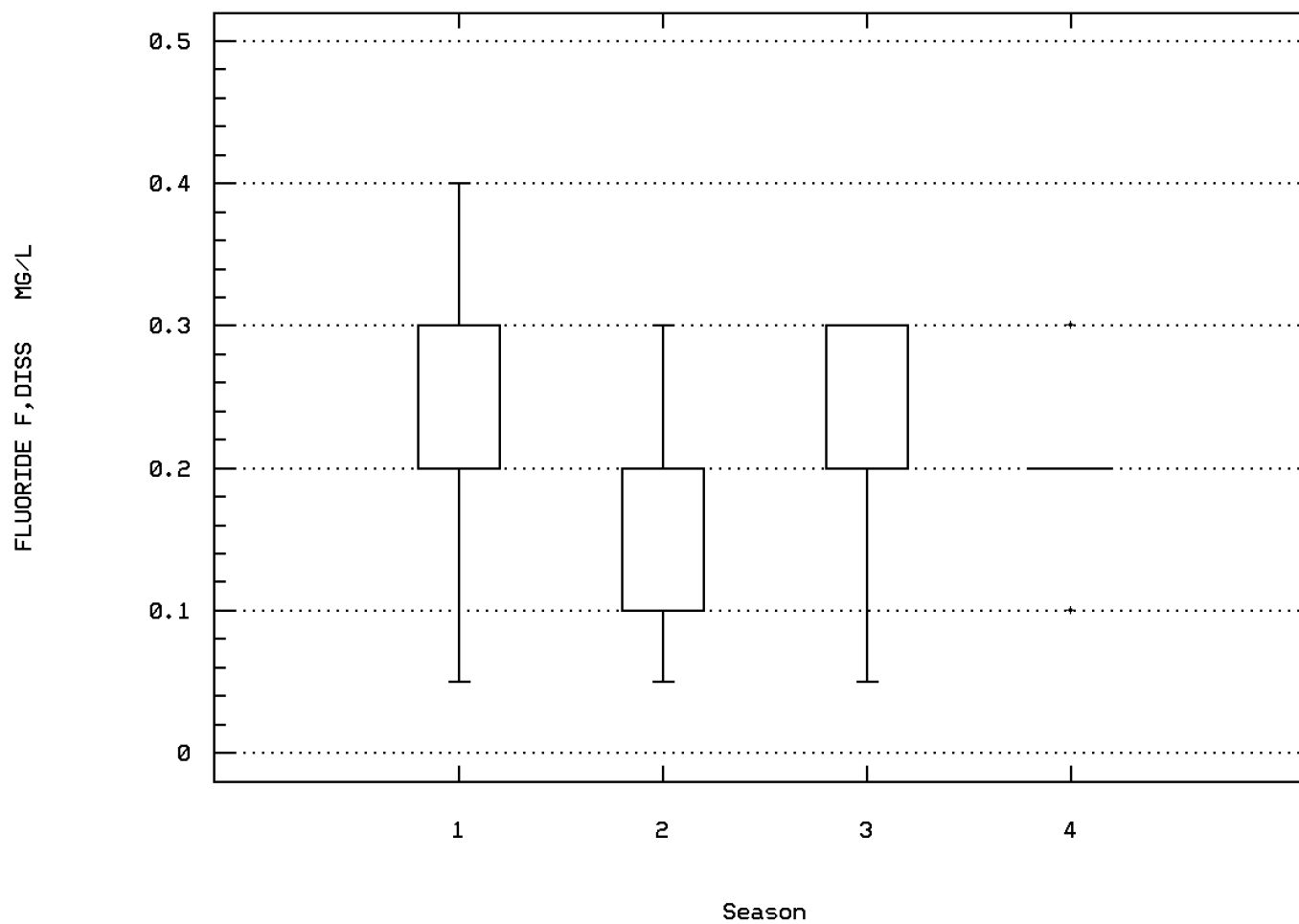
SULFATE, TOTAL (MG/L AS SO4)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 00950

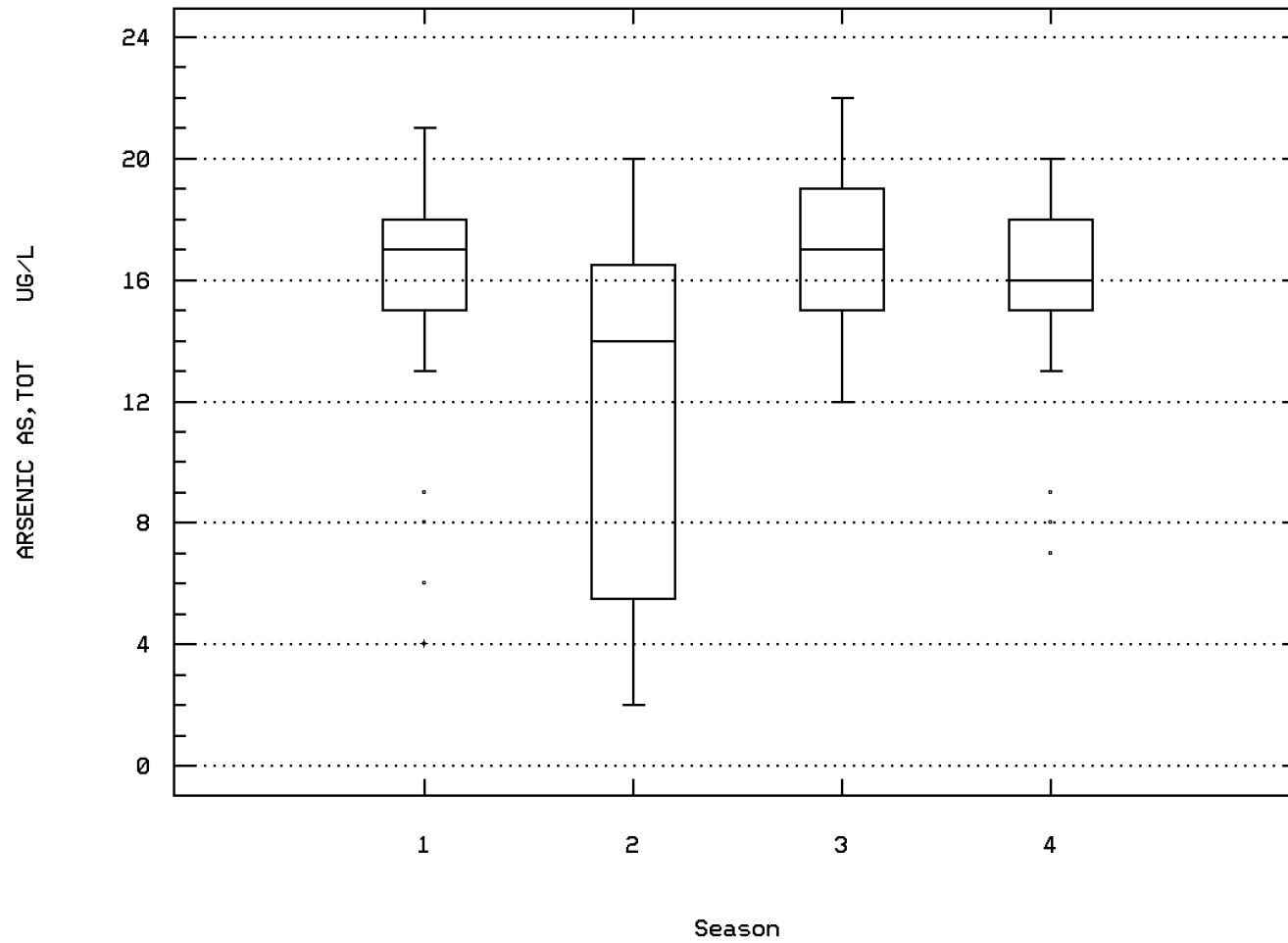
FLUORIDE, DISSOLVED (MG/L AS F)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 01002

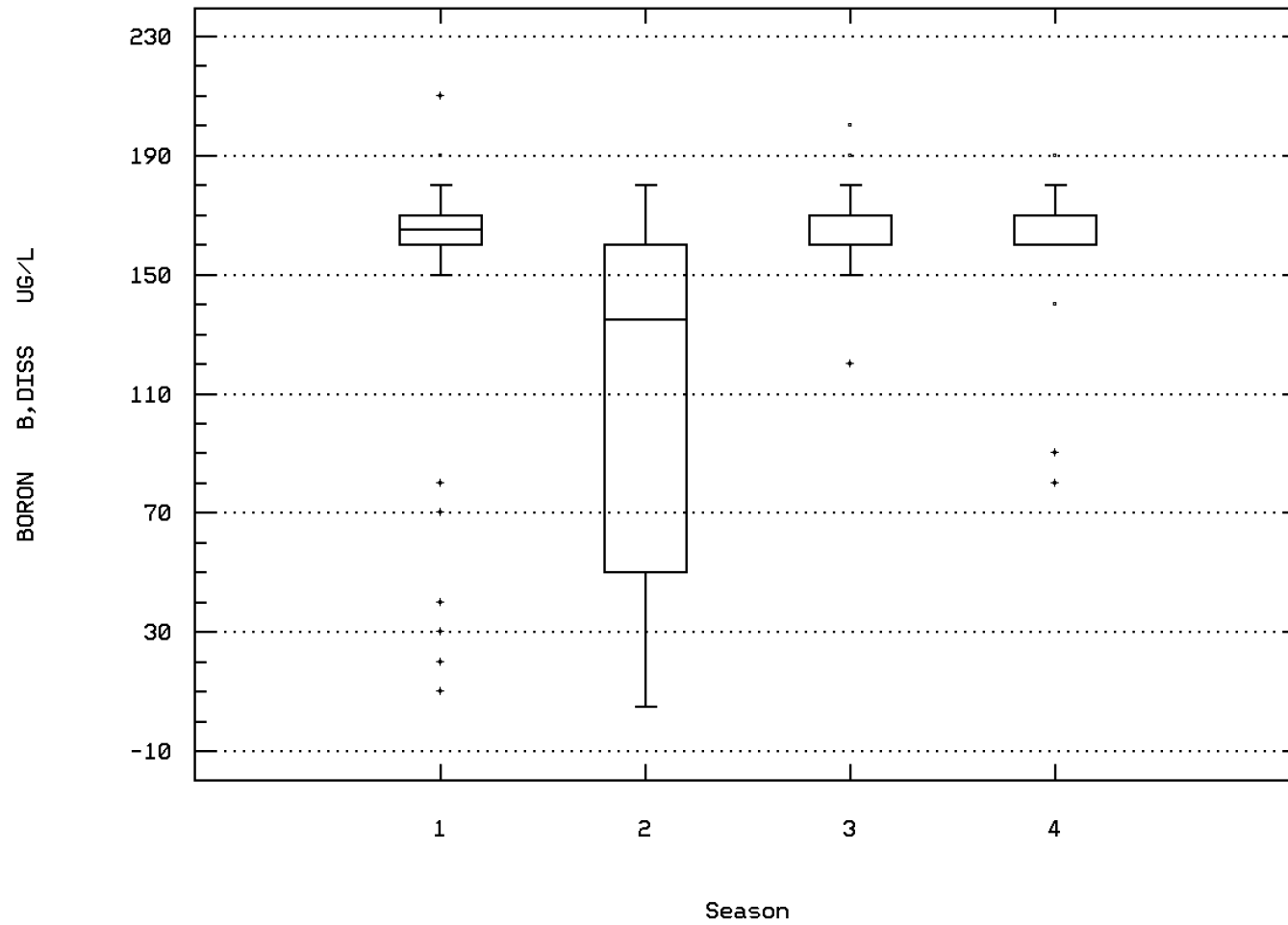
ARSENIC, TOTAL (UG/L AS AS)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 01020

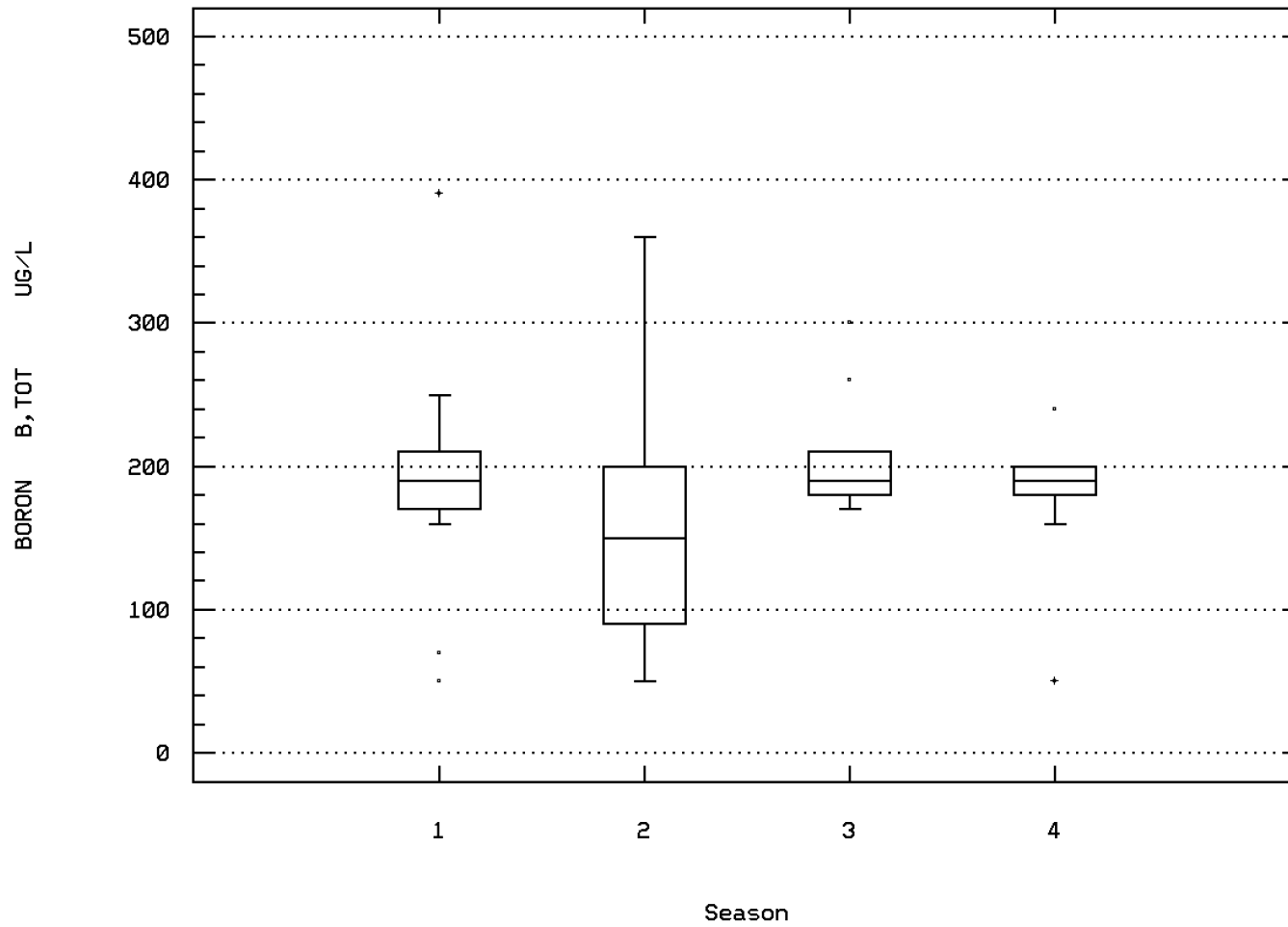
BORON, DISSOLVED (UG/L AS B)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 01022

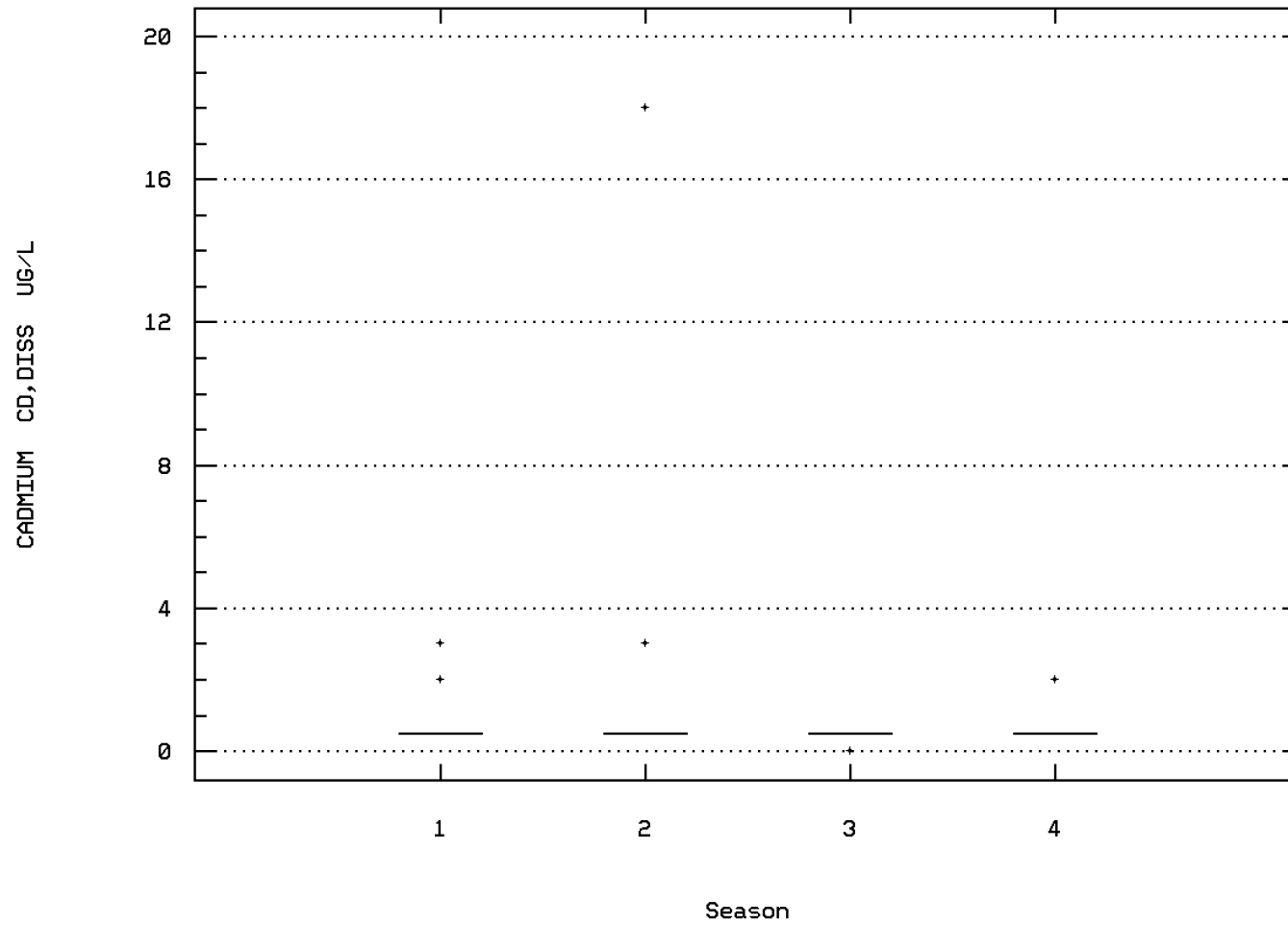
BORON, TOTAL (UG/L AS B)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 01025

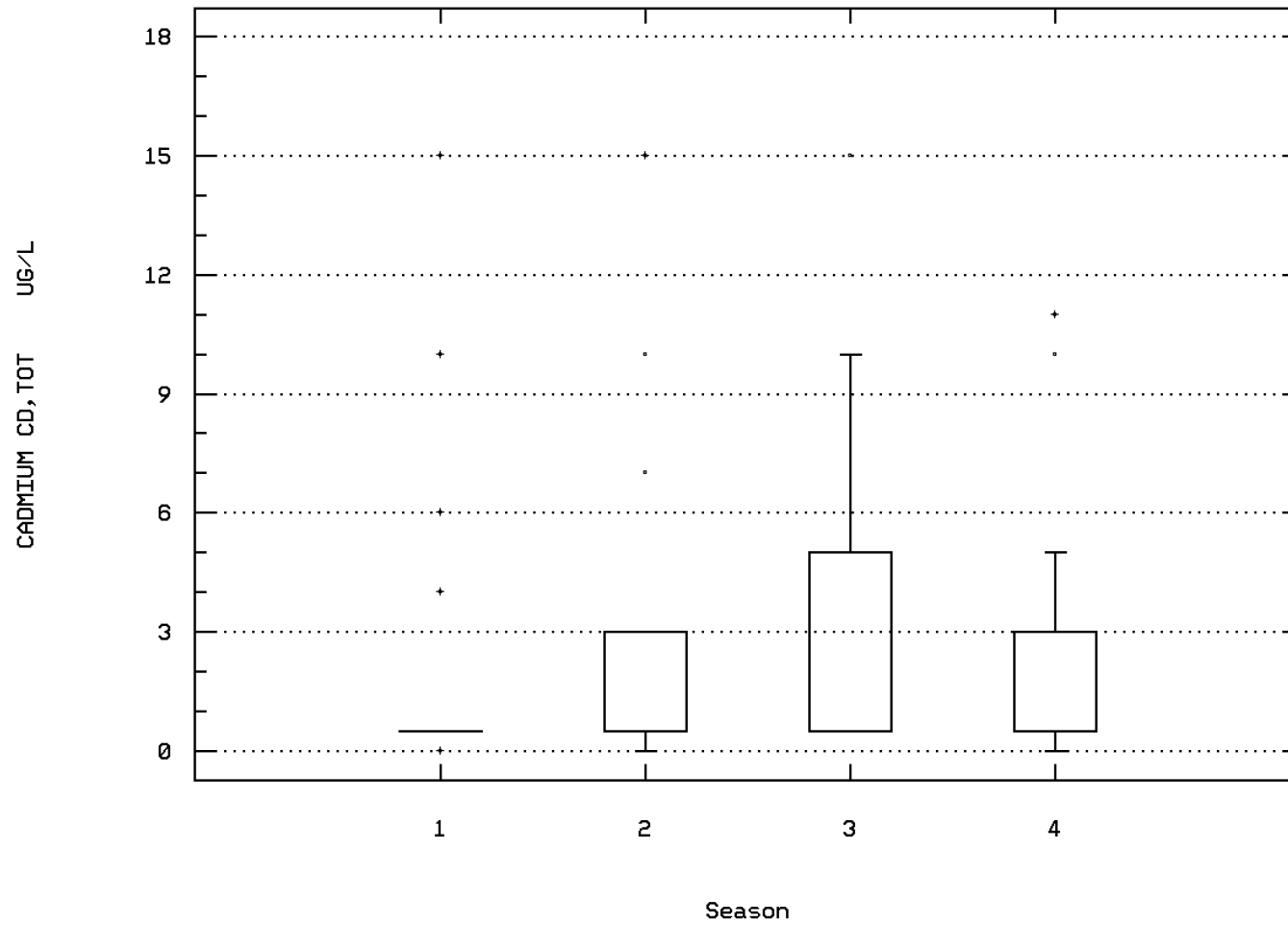
CADMIUM, DISSOLVED (UG/L AS CD)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 01027

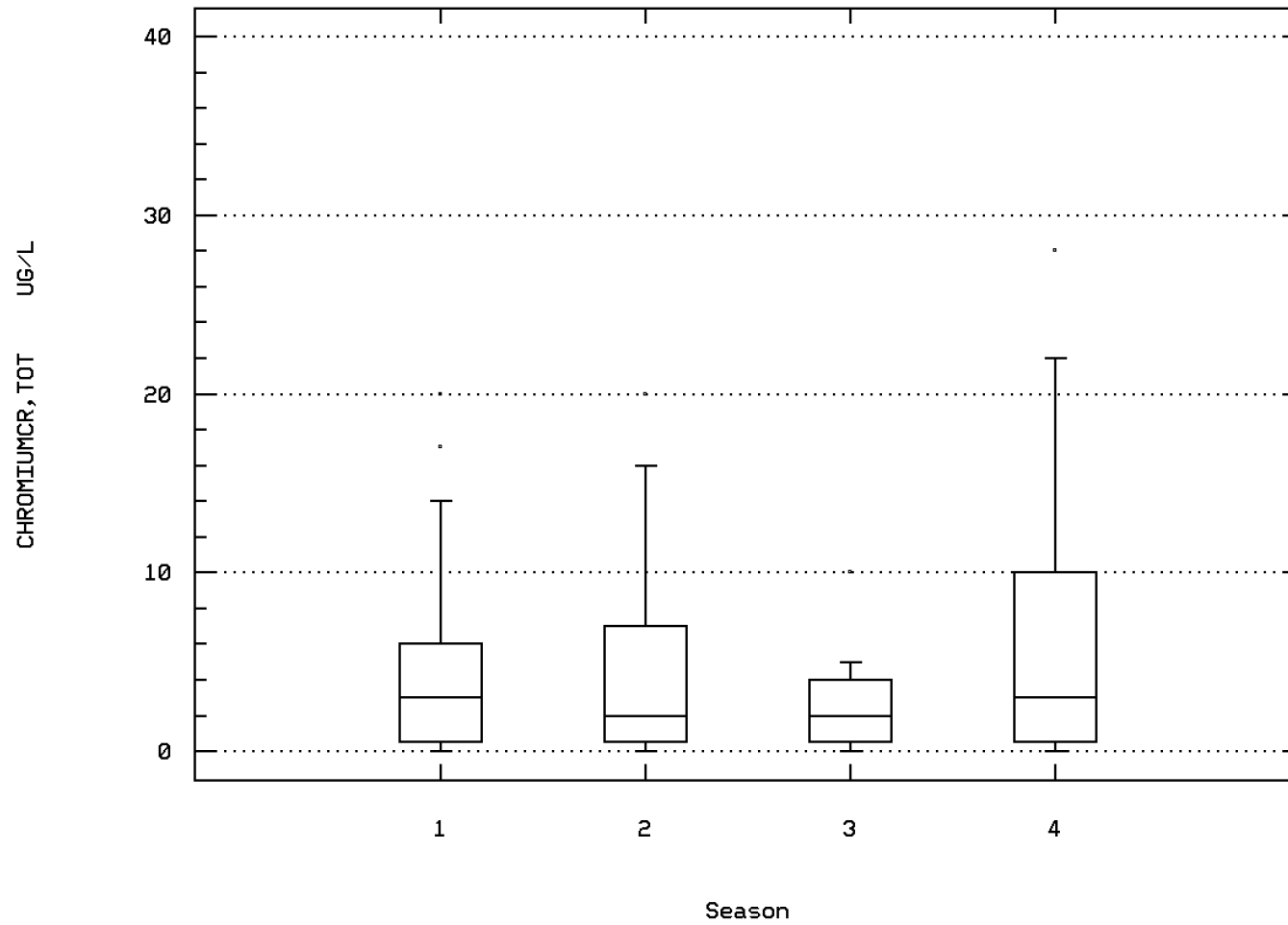
CADMIUM, TOTAL (UG/L AS CD)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 01034

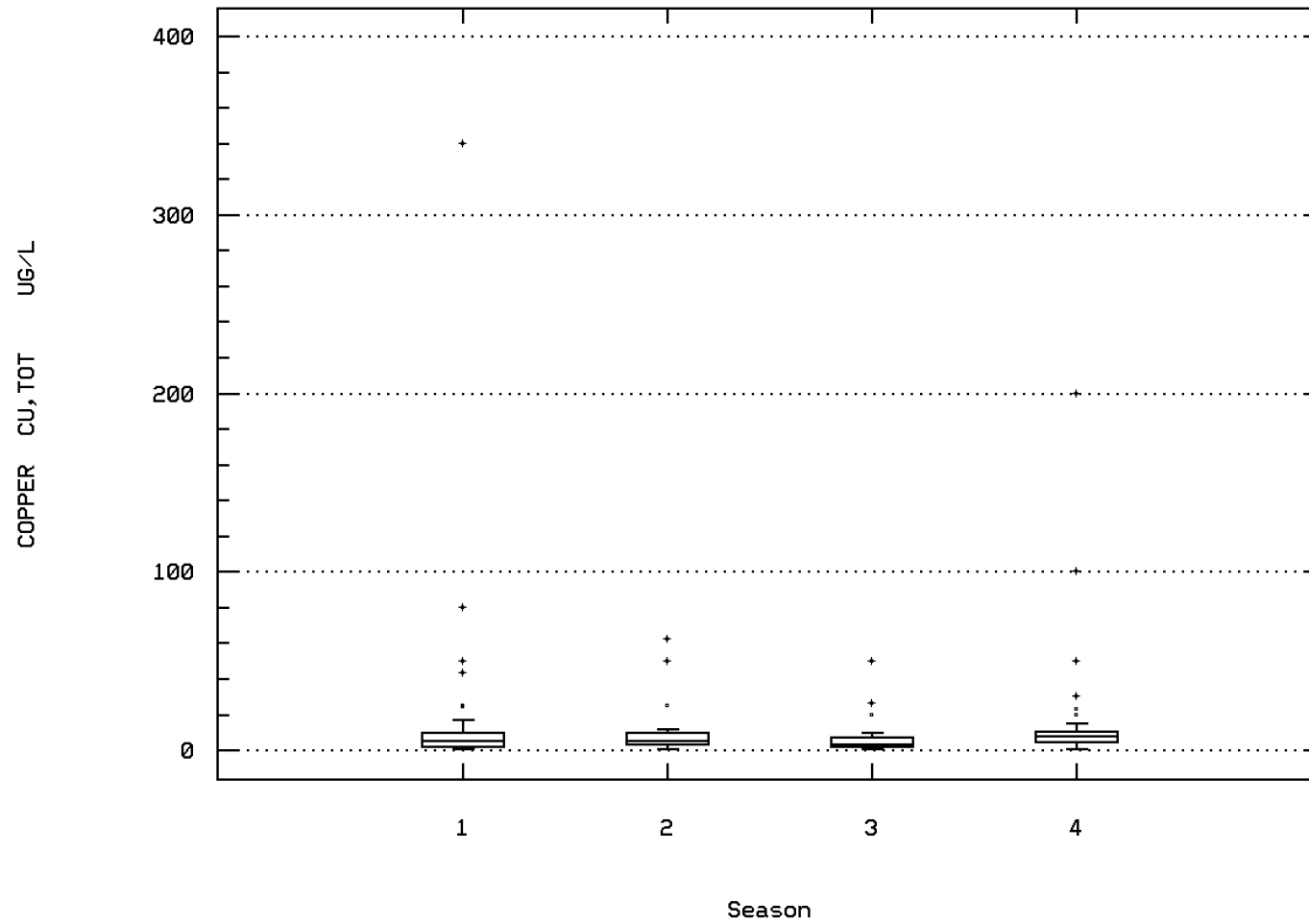
CHROMIUM, TOTAL (UG/L AS CR)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 01042

COPPER, TOTAL (UG/L AS CU)

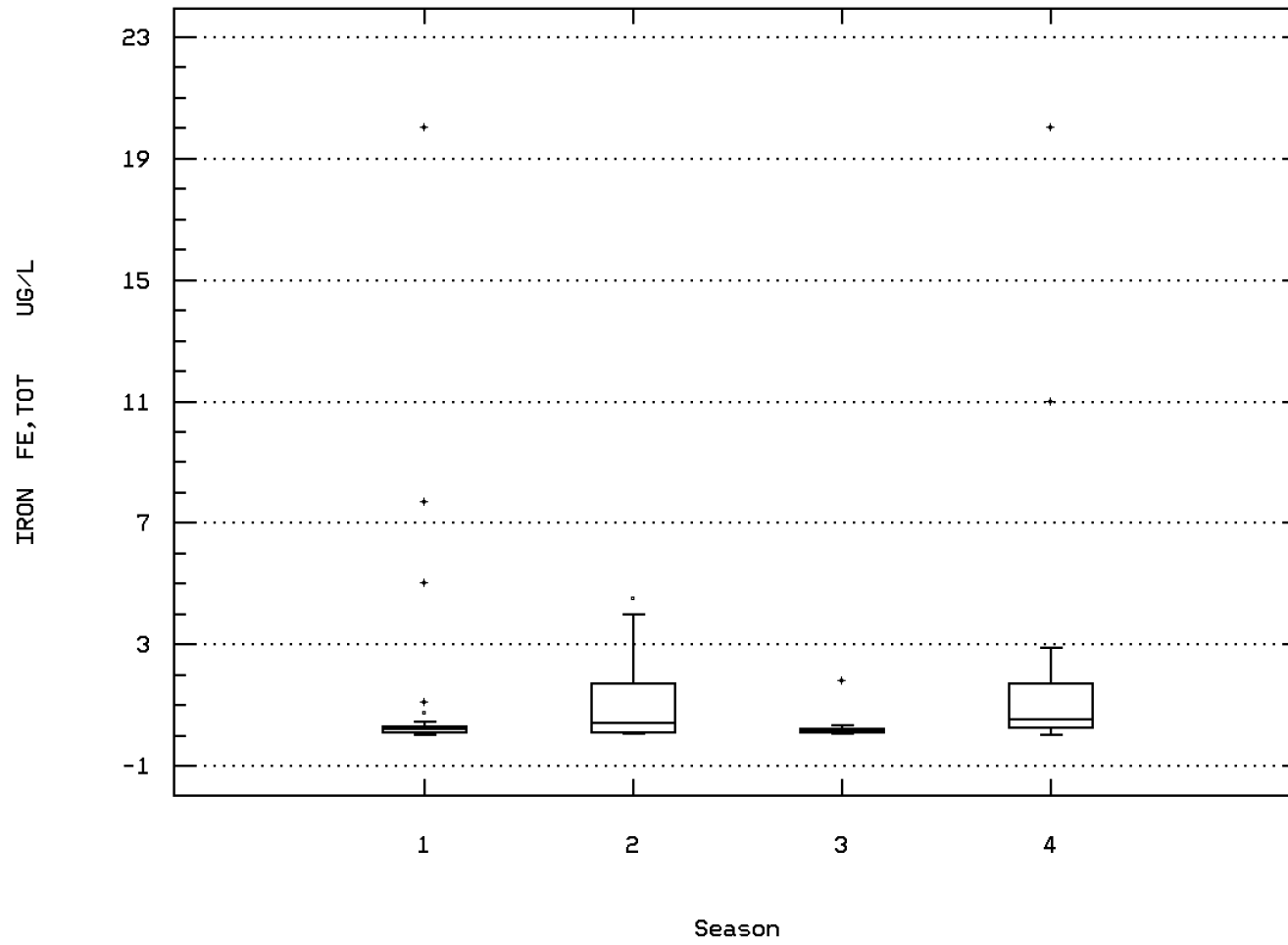


VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 01045

IRON, TOTAL (UG/L AS FE)

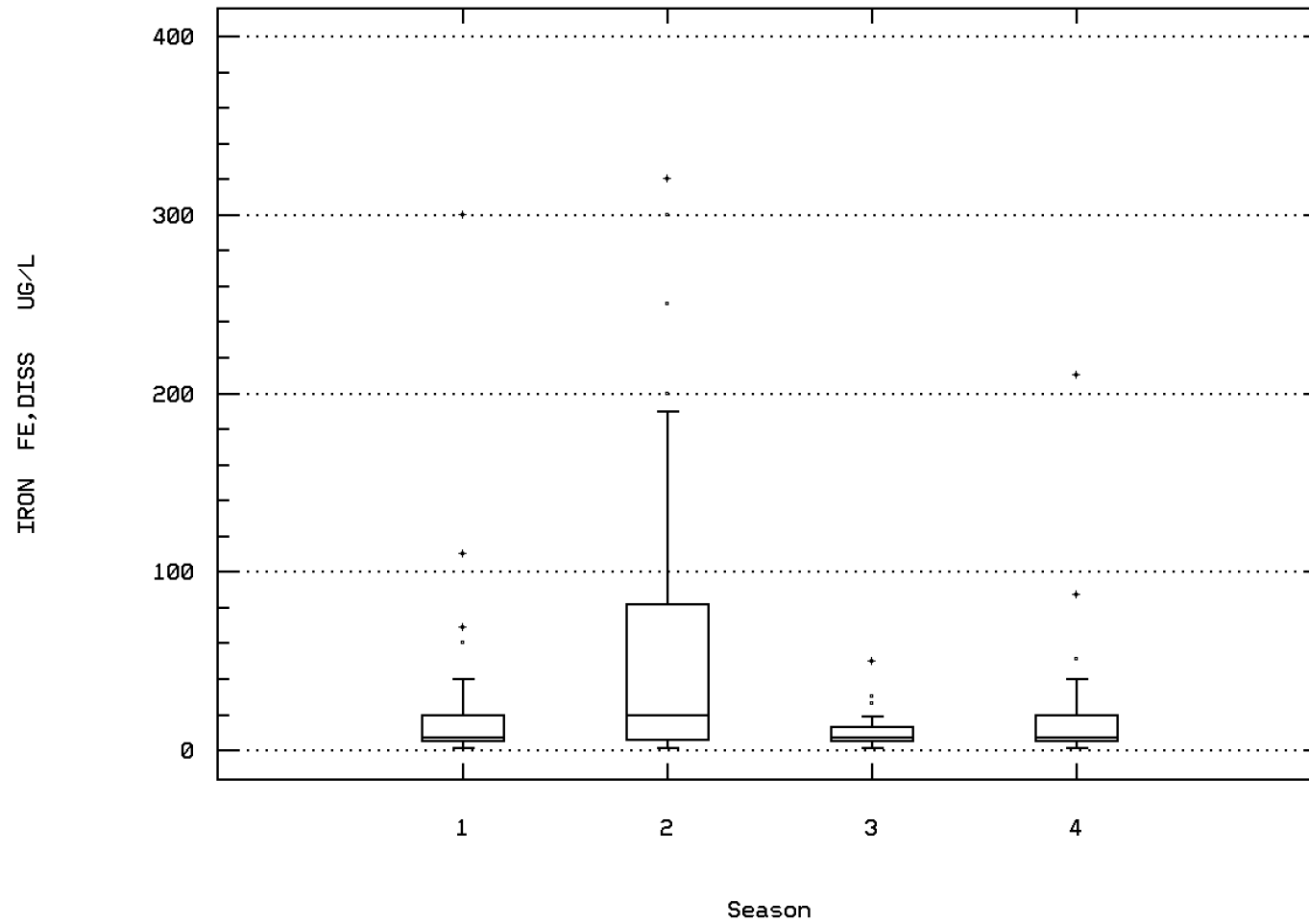
(X 1000)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 01046

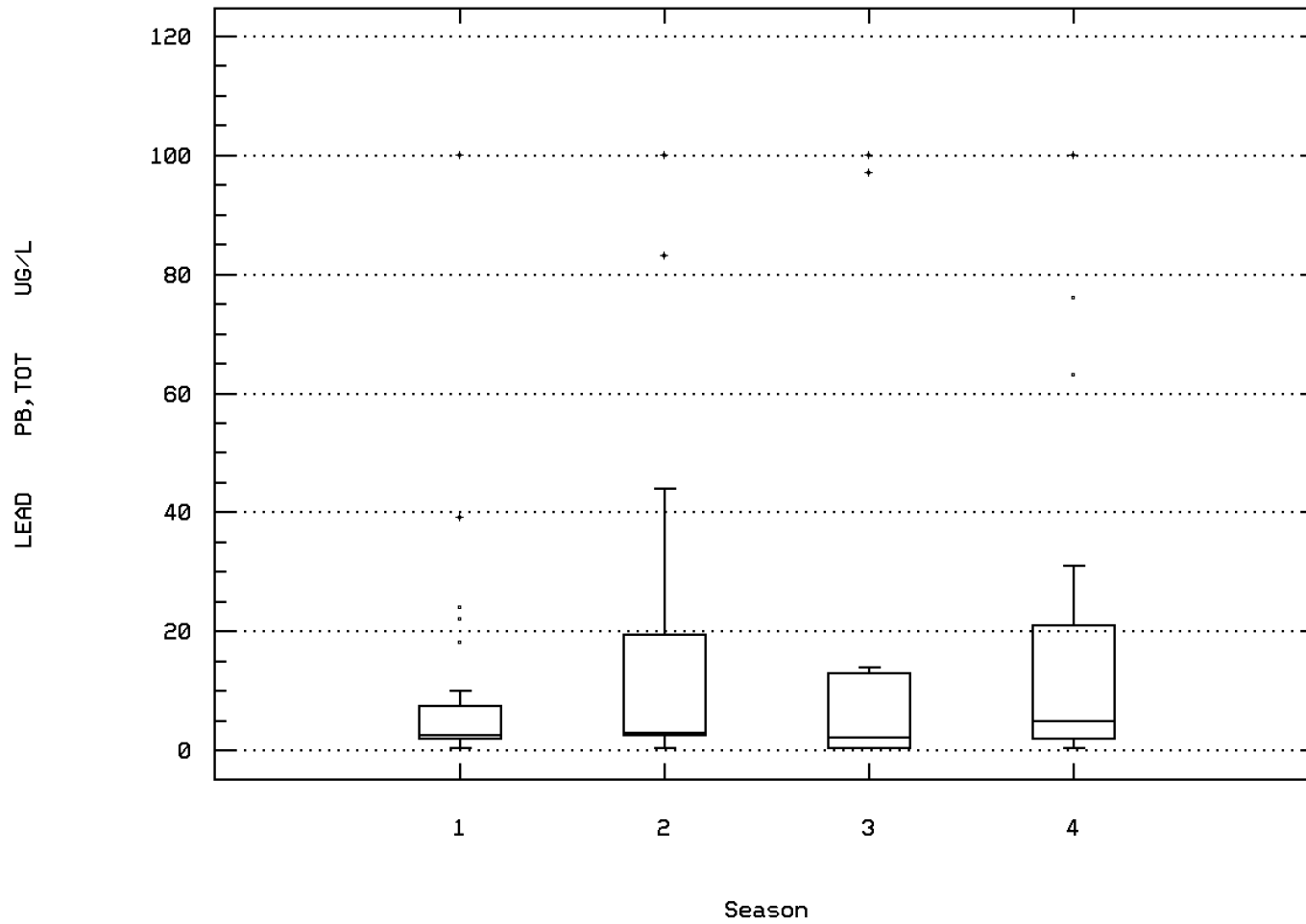
IRON, DISSOLVED (UG/L AS FE)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 01051

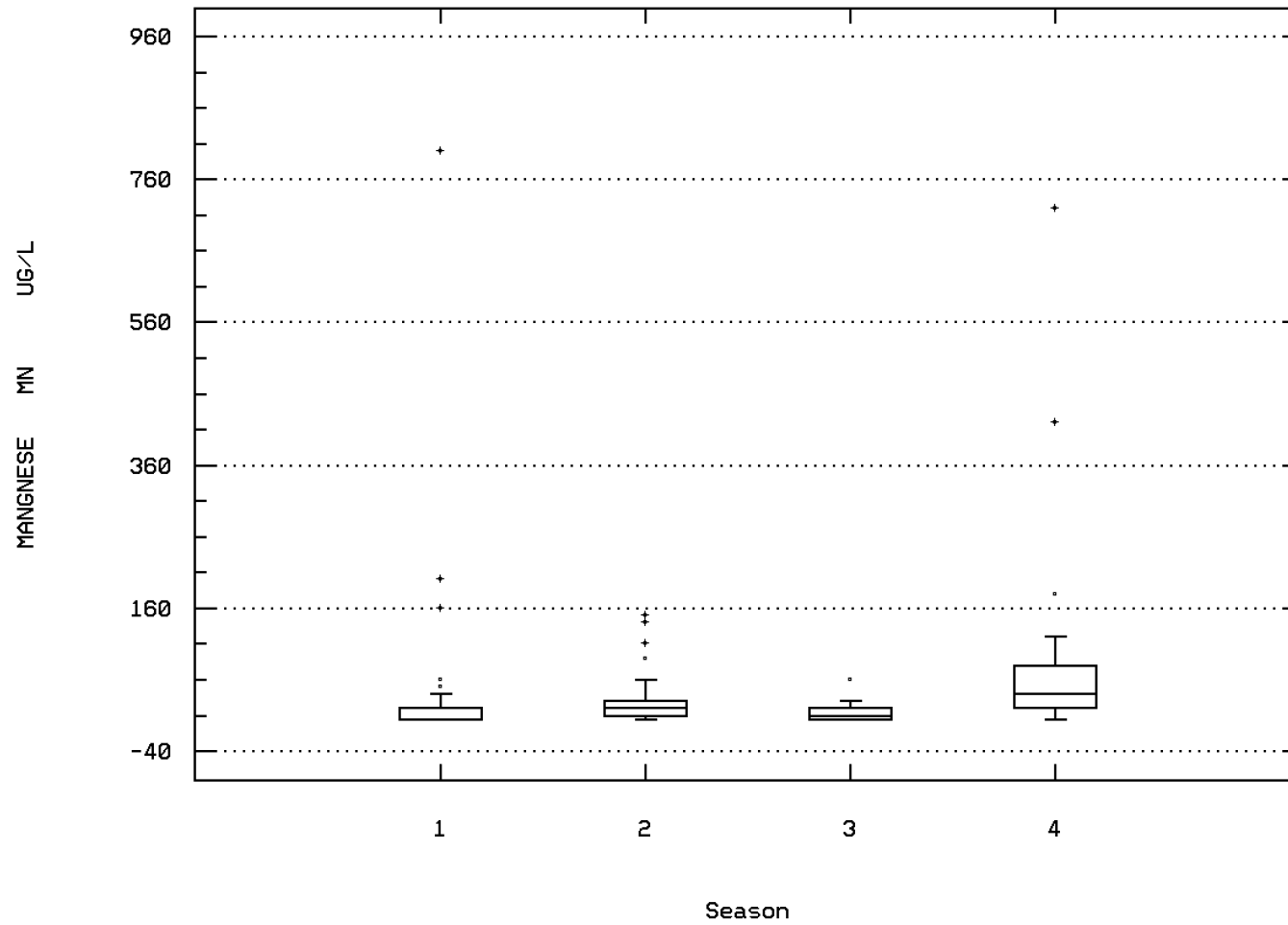
LEAD, TOTAL (UG/L AS PB)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 01055

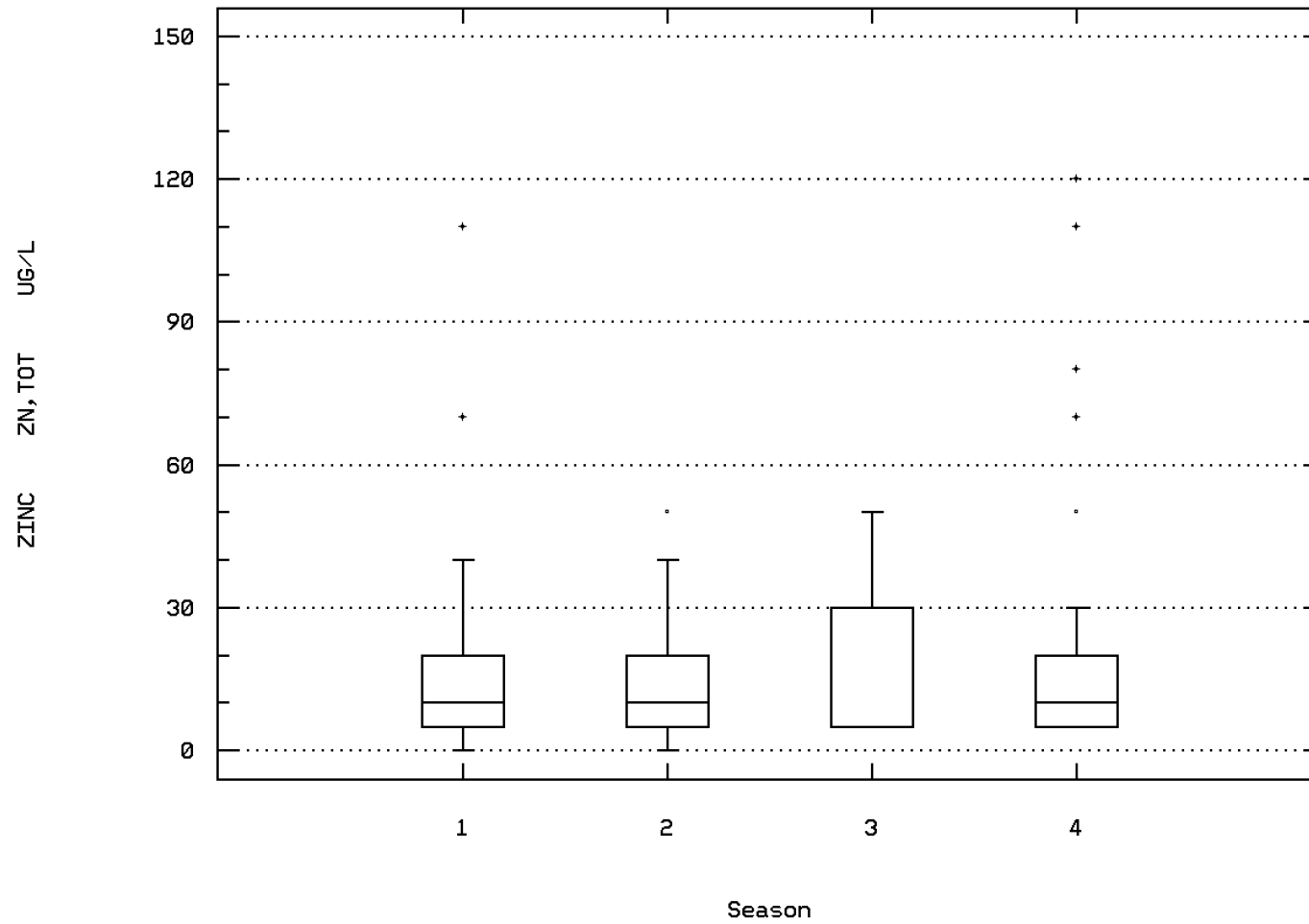
MANGANESE, TOTAL (UG/L AS MN)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 01092

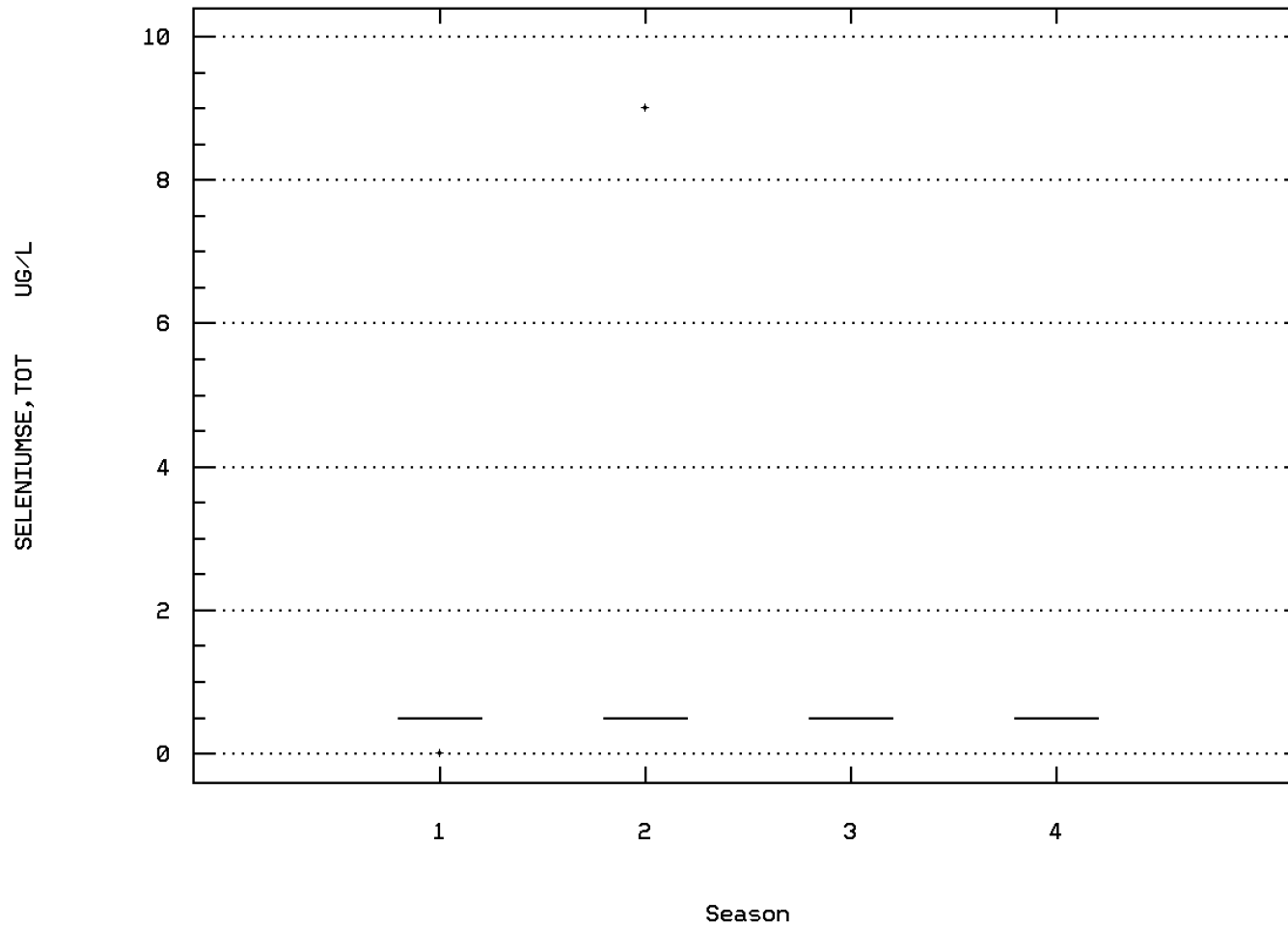
ZINC, TOTAL (UG/L AS ZN)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 01147

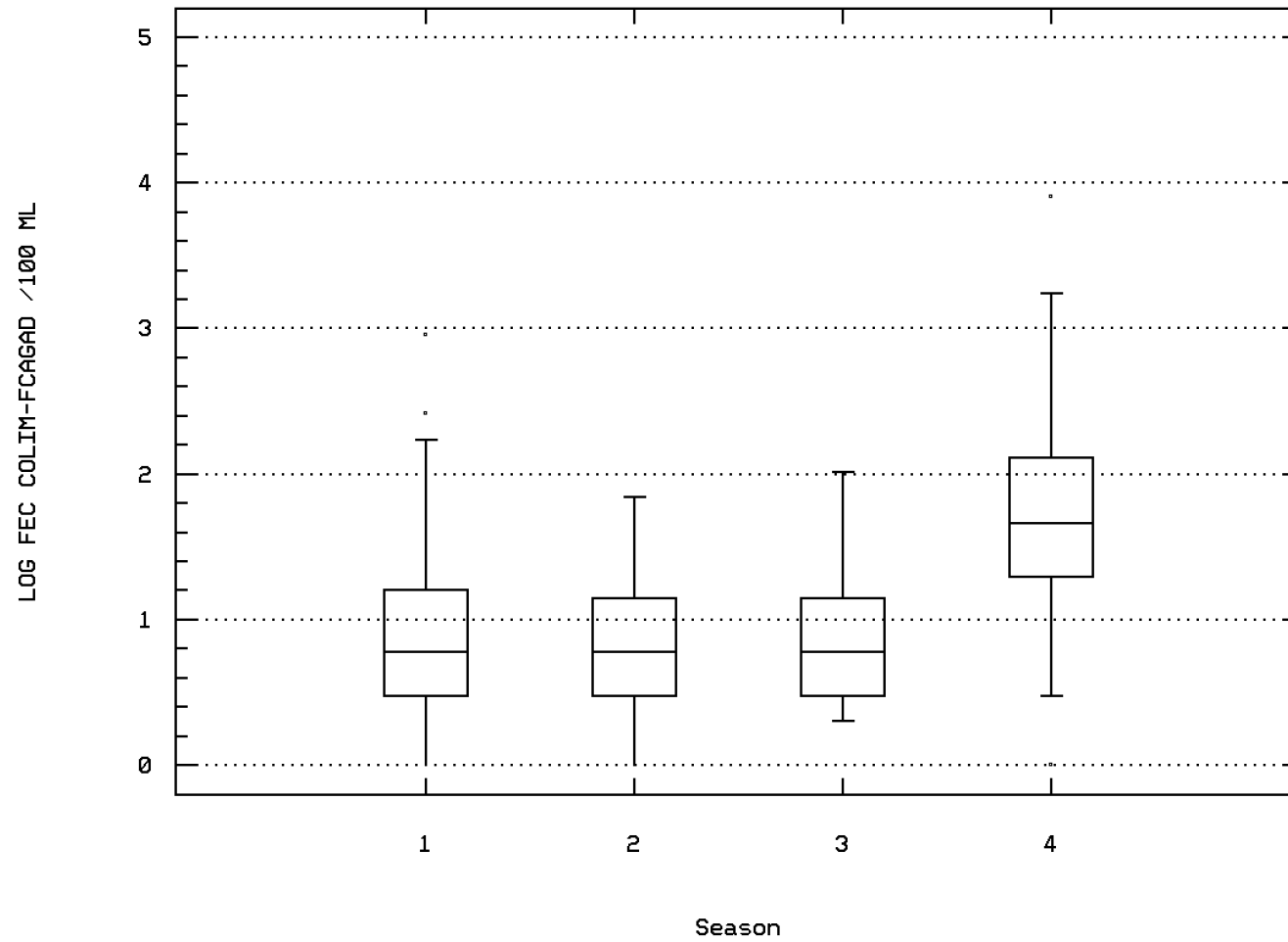
SELENIUM, TOTAL (UG/L AS SE)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 31625

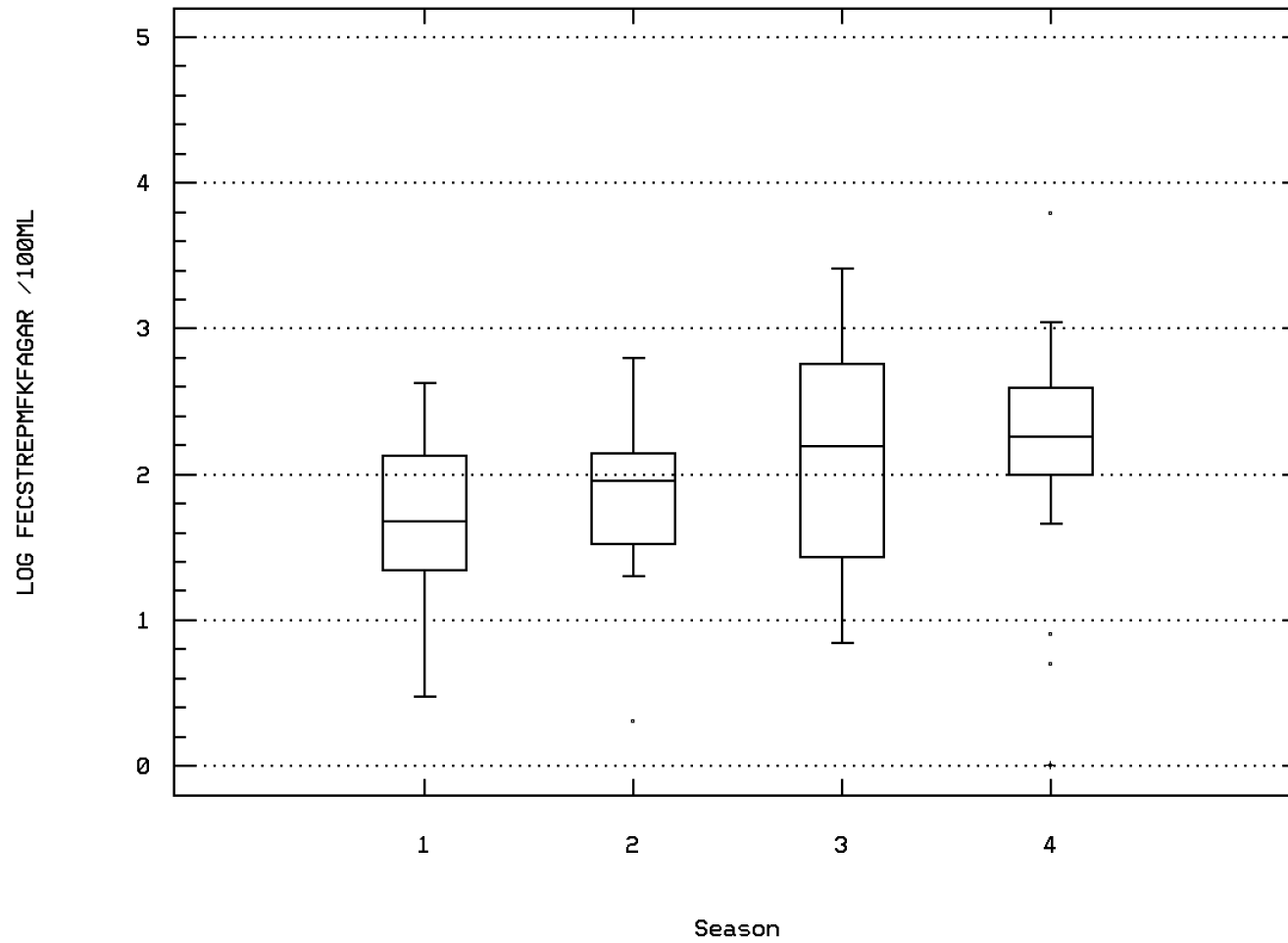
LOG FECAL COLIFORM, MF, M-FC, 0.7 UM



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 31673

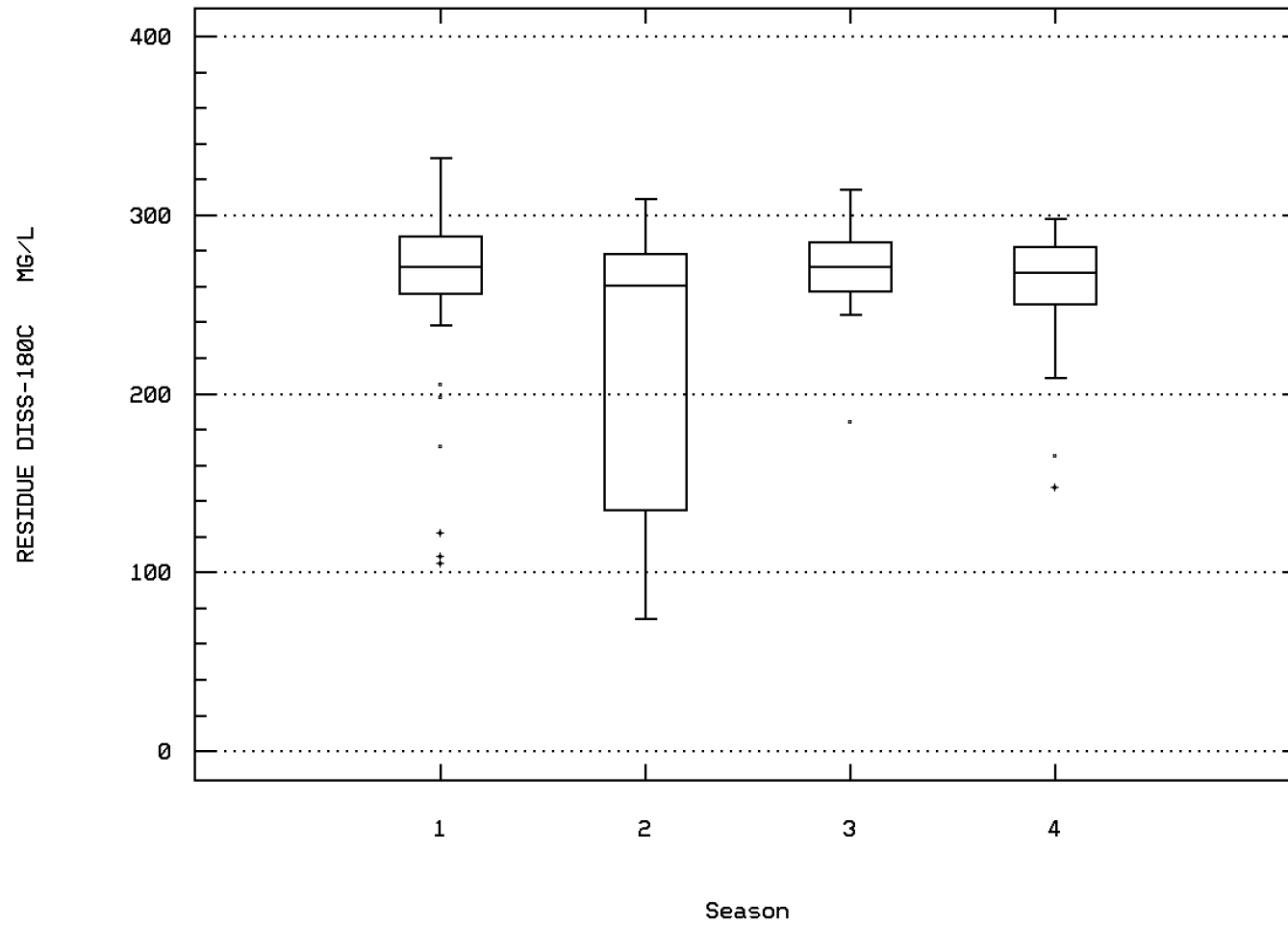
LOG FECAL STREPTOCOCCI, MBR FILT,KF AGA



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 70300

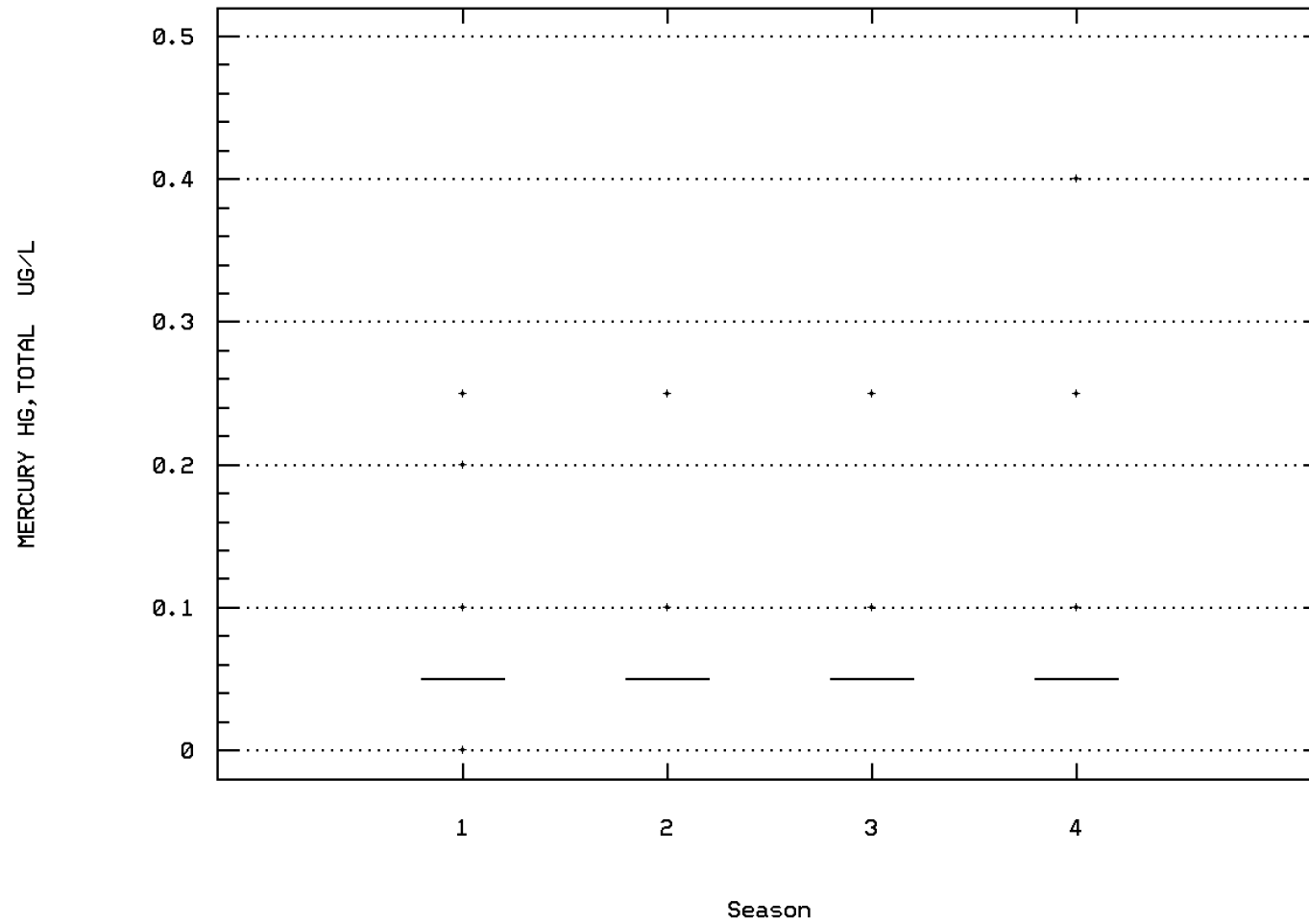
RESIDUE, TOTAL FILTRABLE (DRIED AT 180C)



VERDE RIVER NR CLARKDALE, ARIZ.

Station: TUZI0098 Parameter Code: 71900

MERCURY, TOTAL (UG/L AS HG)



VERDE RIVER NR CLARKDALE, ARIZ.

Station Inventory for Station: TUZI0099

NPS Station ID: TUZI0099
 Location: VERDE RIVER AT USGS 095040
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 15060202
 Major Basin:
 Minor Basin:
 RF1 Index: 15060202
 RF3 Index: 15060202002510.08
 Description:

LAT/LON: 34.851392/-112.065281

Depth of Water: 0
 Elevation: 3512

RF1 Mile Point: 0.000
 RF3 Mile Point: 10.08

Agency: 11TOX09
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): 000269
 Within Park Boundary: No

Date Created: 11/19/88

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 2.80
 Distance from RF3: 0.08

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: TUZI0099

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
34200	ACENAPHTHYLENE TOTWUG/L	07/28/87-07/28/87	1 ##	5.	5.	5.	0.	0.	**	**	**	**
34204	ACENAPHTHYLENE WET WGTISM/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	0.	0.	**	**	**	**
34205	ACENAPHTHENE TOTWUG/L	07/28/87-07/28/87	1 ##	5.	5.	5.	0.	0.	**	**	**	**
34209	ACENAPHTHENE WET WGTISM/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	0.	0.	**	**	**	**
34224	ANTHRACENE WET WGTISM/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	0.	0.	**	**	**	**
34230	BENZO(B)FLUORANTHENE,WHOLE WATER,UG/L	07/28/87-07/28/87	1 ##	5.	5.	5.	0.	0.	**	**	**	**
34234	BENZO(B)FLUORANTHENE,TISSUE,WET WGT,MG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	0.	0.	**	**	**	**
34242	BENZO(K)FLUORANTHENE, TOTAL, WATER UG/L	07/28/87-07/28/87	1 ##	5.	5.	5.	0.	0.	**	**	**	**
34246	BENZO(K)FLUORANTHENE, WET WT, TISSUE MG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	0.	0.	**	**	**	**
34247	BENZO-A-PYRENE TOTWUG/L	07/28/87-07/28/87	1 ##	5.	5.	5.	0.	0.	**	**	**	**
34251	BENZO-A-PYRENE WET WGTISM/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	0.	0.	**	**	**	**
34273	BIS (2-CHLOROETHYL) ETHER TOTWUG/L	07/28/87-07/28/87	1 ##	5.	5.	5.	0.	0.	**	**	**	**
34277	BIS (2-CHLOROETHYL) ETHER WET WGTISM/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	0.	0.	**	**	**	**
34278	BIS (2-CHLOROETHOXY) METHANE TOTWUG/L	07/28/87-07/28/87	1 ##	5.	5.	5.	0.	0.	**	**	**	**
34282	BIS (2-CHLOROETHOXY) METHANE WET WGTISM/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	0.	0.	**	**	**	**
34287	BIS (2-CHLOROISOPROPYL) ETHER WET WGTISM/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	0.	0.	**	**	**	**
34292	N-BUTYL BENZYL PHTHALATE,WHOLE WATER,UG/L	07/28/87-07/28/87	1 ##	5.	5.	5.	0.	0.	**	**	**	**
34293	N-BUTYL BENZYL PHTHALATE,DISSOLVED,UG/L	07/28/87-07/28/87	1 ##	5.	5.	5.	0.	0.	**	**	**	**
34296	N-BUTYL BENZYL PHTHALATE,TISSUE,WET WGT,MG/KG	07/27/87-07/27/87	1	24000.	24000.	24000.	0.	0.	**	**	**	**
34320	CHRYSENE TOTWUG/L	07/28/87-07/28/87	1 ##	5.	5.	5.	0.	0.	**	**	**	**
34324	CHRYSENE WET WGTISM/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	0.	0.	**	**	**	**
34336	DIETHYL PHTHALATE TOTWUG/L	07/28/87-07/28/87	1 ##	5.	5.	5.	0.	0.	**	**	**	**
34340	DIETHYL PHTHALATE WET WGTISM/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	0.	0.	**	**	**	**
34341	DIMETHYL PHTHALATE TOTWUG/L	07/28/87-07/28/87	1 ##	5.	5.	5.	0.	0.	**	**	**	**
34345	DIMETHYL PHTHALATE WET WGTISM/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	0.	0.	**	**	**	**
34361	ENDOSULFAN, ALPHA TOTWUG/L	07/28/87-07/28/87	1 ##	5.	5.	5.	0.	0.	**	**	**	**
34376	FLUORANTHENE TOTWUG/L	07/28/87-07/28/87	1 ##	5.	5.	5.	0.	0.	**	**	**	**
34380	FLUORANTHENE WET WGTISM/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	0.	0.	**	**	**	**
34385	FLUORENE WET WGTISM/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	0.	0.	**	**	**	**
34386	HEXACHLOROCYCLOPENTADIENE TOTWUG/L	07/28/87-07/28/87	1 ##	5.	5.	5.	0.	0.	**	**	**	**
34390	HEXACHLOROCYCLOPENTADIENE WET WGTISM/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	0.	0.	**	**	**	**
34391	HEXACHLOROBUTADIENE TOTWUG/L	07/28/87-07/28/87	1 ##	5.	5.	5.	0.	0.	**	**	**	**
34395	HEXACHLOROBUTADIENE WET WGTISM/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	0.	0.	**	**	**	**
34396	HEXACHLOROETHANE TOTWUG/L	07/28/87-07/28/87	1 ##	5.	5.	5.	0.	0.	**	**	**	**
34400	HEXACHLOROETHANE WET WGTISM/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	0.	0.	**	**	**	**
34403	INDENO (1,2,3-CD) PYRENE TOTWUG/L	07/28/87-07/28/87	1 ##	5.	5.	5.	0.	0.	**	**	**	**
34407	INDENO (1,2,3-CD) PYRENE WET WGTISM/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	0.	0.	**	**	**	**
34408	ISOPHORONE TOTWUG/L	07/28/87-07/28/87	1 ##	5.	5.	5.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0099

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
34412	ISOPHORONE WET WGT TISM/G/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34420	METHYL CHLORIDE SUSPUG/L	07/28/87-07/28/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34428	N-NITROSODI-N-PROPYLAMINE TOTWUG/L	07/28/87-07/28/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34432	N-NITROSODI-N-PROPYLAMINE WET WGT TISM/G/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34433	N-NITROSODIPHENYLAMINE TOTWUG/L	07/28/87-07/28/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34437	N-NITROSODIPHENYLAMINE WET WGT TISM/G/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34446	NAPHTHALENE WET WGT TISM/G/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34447	NITROBENZENE TOTWUG/L	07/28/87-07/28/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34451	NITROBENZENE WET WGT TISM/G/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34461	PHENANTHRENE TOTWUG/L	07/28/87-07/28/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34465	PHENANTHRENE WET WGT TISM/G/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34468	PHENOL WET WGT TISM/G/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34469	PYRENE TOTWUG/L	07/28/87-07/28/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34473	PYRENE WET WGT TISM/G/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34521	BENZO(GH)PERYLENE1,12-BENZOPERYLENE TOTWUG/L	07/28/87-07/28/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34525	BENZO(GH)PERYLENE1,12-BENZOPERYLENWET WGT TISM/G/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34526	BENZO(A)ANTHRACENE1,2-BENZANTHRACENE TOTWUG/L	07/28/87-07/28/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34530	BENZO(A)ANTHRACENE1,2-BENZANTHRACENWET WGT TISM/G/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34536	1,2-DICHLOROBENZENE TOTWUG/L	07/28/87-07/28/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34540	1,2-DICHLOROBENZENE WET WGT TISM/G/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34551	1,2,4-TRICHLOROBENZENE TOTWUG/L	07/28/87-07/28/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34555	1,2,4-TRICHLOROBENZENE WET WGT TISM/G/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34556	1,2,5,6-DIBENZANTHRACENE TOTWUG/L	07/28/87-07/28/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34566	1,3-DICHLOROBENZENE TOTWUG/L	07/28/87-07/28/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34570	1,3-DICHLOROBENZENE WET WGT TISM/G/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34571	1,4-DICHLOROBENZENE TOTWUG/L	07/28/87-07/28/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34575	1,4-DICHLOROBENZENE WET WGT TISM/G/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34581	2-CHLORONAPHTHALENE TOTWUG/L	07/28/87-07/28/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34585	2-CHLORONAPHTHALENE WET WGT TISM/G/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34586	2-CHLOROPHENOL TOTWUG/L	07/28/87-07/28/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34590	2-CHLOROPHENOL WET WGT TISM/G/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34591	2-NITROPHENOL TOTWUG/L	07/28/87-07/28/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34595	2-NITROPHENOL WET WGT TISM/G/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34596	DI-N-OCTYL PHTHALATE TOTWUG/L	07/28/87-07/28/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34600	DI-N-OCTYL PHTHALATE WET WGT TISM/G/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34601	2,4-DICHLOROPHENOL TOTWUG/L	07/28/87-07/28/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34605	2,4-DICHLOROPHENOL WET WGT TISM/G/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34606	2,4-DIMETHYLPHENOL TOTWUG/L	07/28/87-07/28/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34610	2,4-DIMETHYLPHENOL WET WGT TISM/G/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34611	2,4-DINITROTOLUENE TOTWUG/L	07/28/87-07/28/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34615	2,4-DINITROTOLUENE WET WGT TISM/G/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34616	2,4-DINITROPHENOL TOTWUG/L	07/28/87-07/28/87	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34620	2,4-DINITROPHENOL WET WGT TISM/G/KG	07/27/87-07/27/87	1 ##	800.	800.	800.	800.	0.	0.	**	**	**	**
34621	2,4,6-TRICHLOROPHENOL TOTWUG/L	07/28/87-07/28/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34625	2,4,6-TRICHLOROPHENOL WET WGT TISM/G/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34626	2,6-DINITROTOLUENE TOTWUG/L	07/28/87-07/28/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34630	2,6-DINITROTOLUENE WET WGT TISM/G/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34631	3,3'-DICHLOROBENZIDINE TOTWUG/L	07/28/87-07/28/87	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
34635	3,3'-DICHLOROBENZIDINE WET WGT TISM/G/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34636	4-BROMOPHENYL PHENYL ETHER TOTWUG/L	07/28/87-07/28/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34640	4-BROMOPHENYL PHENYL ETHER WET WGT TISM/G/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34641	4-CHLOROPHENYL PHENYL ETHER TOTWUG/L	07/28/87-07/28/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34645	4-CHLOROPHENYL PHENYL ETHER WET WGT TISM/G/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34646	4-NITROPHENOL TOTWUG/L	07/28/87-07/28/87	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34650	4-NITROPHENOL WET WGT TISM/G/KG	07/27/87-07/27/87	1 ##	800.	800.	800.	800.	0.	0.	**	**	**	**
34657	DNOC (4,6-DINITRO-ORTHO-CRESOL) TOTWUG/L	07/28/87-07/28/87	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34661	DNOC (4,6-DINITRO-ORTHO-CRESOL) WET WGT TISM/G/KG	07/27/87-07/27/87	1 ##	800.	800.	800.	800.	0.	0.	**	**	**	**
34683	DI-N-BUTYL PHTHALATE, TISSUE, WET WGT WET WGT	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34688	HEXACHLOROBENZENE WET WGT TISM/G/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
34694	PHENOL(C6H5OH)-SINGLE COMPOUND TOTWUG/L	07/28/87-07/28/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39032	PCP (PENTACHLOROPHENOL) WHOLE WATER SAMPLE UG/L	07/28/87-07/28/87	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
39060	PCP (PENTACHLOROPHENOL) IN TISSUE WET WGT UG/G	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**
39099	BIS(2-ETHYLHEXYL)PHTHALATE, TISSUE, WET WGT, MG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0099

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39100	BIS(2-ETHYLHEXYL) PHTHALATE, WHOLE WATER, UG/L	07/28/87-07/28/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**
39110	DI-N-BUTYL PHTHALATE, WHOLE WATER, UG/L	07/28/87-07/28/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**
39250	NAPHTHALENES, POLYCHLORINATED (UG/L)	07/28/87-07/28/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**
39700	HEXACHLORO BENZENE IN WHOLE WATER SAMPLE (UG/L)	07/28/87-07/28/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**
73529	BENZENAMINE, 4-CHLORO- TOTWUG/L	07/28/87-07/28/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**
73605	BENZENAMINE, 4-NITRO- TOTWUG/L	07/28/87-07/28/87	1 ##	25.	25.	25.	25.	0.	0.	**	**	**
76184	BENZYL ALCOHOL TISSUE, WET WGT, MG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**
76287	BENZOIC ACID TISSUE, WET WGT, MG/KG	07/27/87-07/27/87	1 ##	800.	800.	800.	800.	0.	0.	**	**	**
76619	DIBENZOFURAN TISSUE, WET WGT, MG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**
76982	4-CHLORO-3,5-DIMETHYLPHENOL, IN WATER UG/L	07/28/87-07/28/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**
77146	P-CRESOL WHOLE WATER, UG/L	07/28/87-07/28/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**
77147	BENZYL ALCOHOL WHOLE WATER, UG/L	07/28/87-07/28/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**
77152	O-CRESOL WHOLE WATER, UG/L	07/28/87-07/28/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**
77247	BENZOIC ACID WHOLE WATER, UG/L	07/28/87-07/28/87	1 ##	25.	25.	25.	25.	0.	0.	**	**	**
77416	2-METHYLNAPHTHALENE WHOLE WATER, UG/L	07/28/87-07/28/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**
77687	2,4,5-TRICHLOROPHENOL WHOLE WATER, UG/L	07/28/87-07/28/87	1 ##	25.	25.	25.	25.	0.	0.	**	**	**
78142	ORTHO NITROANILINE IN WHOLE WATER UG/L	07/28/87-07/28/87	1 ##	25.	25.	25.	25.	0.	0.	**	**	**
78300	3-NITROANILINE, TOTAL, IN WATER UG/L	07/28/87-07/28/87	1 ##	25.	25.	25.	25.	0.	0.	**	**	**
79040	DIBENZ(A,H)ANTHRACENE TISWETWTMG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**
81302	DIBENZOFURAN(C12H8O) WHOLE WATER SAMPLE UG/L	07/28/87-07/28/87	1 ##	5.	5.	5.	5.	0.	0.	**	**	**
85759	NITROANILINE, 2- , TISSUE, WET WT, MG/KG	07/27/87-07/27/87	1 ##	800.	800.	800.	800.	0.	0.	**	**	**
85760	CHLORANILINE, 4- , TISSUE, WET WT, MG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**
85762	NITROANILINE, 4- , TISSUE, WET WT, MG/KG	07/27/87-07/27/87	1 ##	800.	800.	800.	800.	0.	0.	**	**	**
85763	NITROANILINE, 3- , TISSUE, WET WT, MG/KG	07/27/87-07/27/87	1 ##	800.	800.	800.	800.	0.	0.	**	**	**
85766	METHYLPHENOL, 4- , TISSUE, WET WT, MG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**
85767	METHYLPHENOL, 2- , TISSUE, WET WT, MG/KG	07/27/87-07/27/87	1 ##	165.	165.	165.	165.	0.	0.	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0099

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----		-----2/10-4/30-----		-----5/01-6/30-----		-----7/01-10/09-----	
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed
34205	ACENAPHTHENE, TOTAL	Fresh Acute	1700.	1	0	0.00						1	0
34361	ENDOSULFAN, ALPHA, TOTAL	Fresh Acute	0.22	0 &	0	0.00							0.00
34376	FLUORANTHENE, TOTAL	Fresh Acute	3980.	1	0	0.00						1	0
34386	HEXACHLOROCYCLOPENTADIENE, TOTAL	Fresh Acute	7.	1	0	0.00						1	0
		Drinking Water	50.	1	0	0.00						1	0
34391	HEXACHLOROBUTADIENE, TOTAL	Fresh Acute	90.	1	0	0.00						1	0
34396	HEXACHLOROETHANE, TOTAL	Fresh Acute	980.	1	0	0.00						1	0
34403	IDENO (1,2,3-CD) PYRENE	Drinking Water	0.4	0 &	0	0.00							0.00
34408	ISOPHORONE, TOTAL	Fresh Acute	117000.	1	0	0.00						1	0
34447	NITROBENZENE, TOTAL	Fresh Acute	27000.	1	0	0.00						1	0
34461	PHENANTHRENE, TOTAL	Fresh Acute	30.	1	0	0.00						1	0
34536	1,2-DICHLOROBENZENE, TOTAL	Drinking Water	600.	1	0	0.00						1	0
34551	1,2,4-TRICHLOROBENZENE, TOTAL	Drinking Water	70.	1	0	0.00						1	0
34566	1,3-DICHLOROBENZENE, TOTAL	Drinking Water	600.	1	0	0.00						1	0
34571	1,4-DICHLOROBENZENE, TOTAL	Drinking Water	75.	1	0	0.00						1	0
34586	2-CHLOROPHENOL, TOTAL	Fresh Acute	4380.	1	0	0.00						1	0
34601	2,4-DICHLOROPHENOL, TOTAL	Fresh Acute	2020.	1	0	0.00						1	0
34606	2,4-DIMETHYLPHENOL, TOTAL	Fresh Acute	2120.	1	0	0.00						1	0
34611	2,4-DINITROTOLUENE, TOTAL	Fresh Acute	330.	1	0	0.00						1	0
34694	PHENOL (C6H5OH) - SINGLE COMPOUND, TOTAL	Fresh Acute	10200.	1	0	0.00						1	0
39032	PCP (PENTACHLOROPHENOL) WHOLE WATER SAMP	Fresh Acute	20.	0 &	0	0.00							0.00
		Drinking Water	1.	0 &	0	0.00							0.00
39100	BIS(2-ETHYLHEXYL) PHTHALATE, WHOLE WATER	Fresh Acute	2000.	1	0	0.00						1	0
		Drinking Water	6.	1	0	0.00						1	0
39700	HEXACHLORO BENZENE IN WHOLE WATER SAMPLE	Fresh Acute	6.	1	0	0.00						1	0
		Drinking Water	1.	0 &	0	0.00							0.00
77687	2,4,5-TRICHLOROPHENOL, WHOLE WATER	Fresh Acute	100.	1	0	0.00						1	0

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0100

NPS Station ID: TUZI0100 LAT/LON: 34.854726/-112.071116
 Location: VERDE R 1 KM BELOW CONFLUENCE WITH SYCAMORE CR
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 15060202 Depth of Water: 0
 Major Basin: COLORADO RIVER Elevation: 0
 Minor Basin: GILA RIVER
 RF1 Index: 15060202025 RF1 Mile Point: 23.360
 RF3 Index: 15060202002512.18 RF3 Mile Point: 12.56
 Description:
 VERDE RIVER 1 KM BELOW CONFLUENCE WITH SYCAMORE CREEK AND 238.7 KM (149.2 MI) UPSTREAM OF CONFLUENCE WITH SALT RIVER.

Agency: 21ARIZ
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): 700000000023870
 Within Park Boundary: No

Date Created: 11/08/78

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.04

On/Off RF1: ON
 On/Off RF3:

Parameter Inventory for Station: TUZI0100

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/10/74-09/09/76	4	21.	21.25	26.	17.	13.583	3.686	**	**	**	**
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/10/74-10/10/74	1	16.	16.	16.	16.	0.	0.	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/10/74-09/09/76	4	39.5	43.	80.	13.	1198.	34.612	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/10/74-09/09/76	4	466.	460.5	500.	410.	1391.	37.296	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	10/10/74-09/09/76	4	9.25	9.45	11.8	7.5	4.177	2.044	**	**	**	**
00310 BOD, 5 DAY, 20 DEG C MG/L	09/02/76-09/09/76	2	1.	1.	1.	1.	0.	0.	**	**	**	**
00403 PH, LAB, STANDARD UNITS SU	10/10/74-09/09/76	4	8.05	7.7	8.2	6.5	0.647	0.804	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	10/10/74-09/09/76	4	8.047	7.07	8.2	6.5	1.176	1.084	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/10/74-09/09/76	4	0.009	0.085	0.316	0.006	0.024	0.154	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	08/31/76-09/09/76	3	248.	246.667	254.	238.	65.333	8.083	**	**	**	**
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)	08/31/76-09/09/76	3	0.	0.	0.	0.	0.	0.	**	**	**	**
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/31/76-09/09/76	3	257.	258.667	263.	256.	14.333	3.786	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/02/76-09/09/76	2	96.	96.	180.	12.	14112.	118.794	**	**	**	**
00535 RESIDUE, VOLATILE NONFILTRABLE (MG/L)	09/02/76-09/09/76	2	8.	8.	16.	0.	128.	11.314	**	**	**	**
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	10/10/74-09/09/76	4 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/10/74-09/09/76	4 ##	0.	0.25	1.	0.	0.25	0.5	**	**	**	**
00650 PHOSPHATE, TOTAL (MG/L AS PO4)	10/10/74-09/09/76	4 ##	0.085	0.093	0.2	0.	0.012	0.108	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	08/31/76-09/09/76	3	186.	186.667	190.	184.	9.333	3.055	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS Ca)	08/31/76-09/09/76	3	40.	39.333	40.	38.	1.333	1.155	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)	08/31/76-09/09/76	3	21.	21.667	23.	21.	1.333	1.155	**	**	**	**
00929 SODIUM, TOTAL (MG/L AS Na)	08/31/76-09/09/76	3	24.	25.	27.	24.	3.	1.732	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	08/31/76-09/09/76	3	14.	14.333	15.	14.	0.333	0.577	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	08/31/76-09/09/76	3	8.	8.333	9.	8.	0.333	0.577	**	**	**	**
00951 FLUORIDE, TOTAL (MG/L AS F)	08/31/76-09/09/76	3	0.22	0.213	0.22	0.2	0.	0.012	**	**	**	**
01002 ARSENIC, TOTAL (UG/L AS AS)	10/10/74-09/09/76	4	20.	20.	20.	20.	0.	0.	**	**	**	**
01027 CADMIUM, TOTAL (UG/L AS CD)	10/10/74-09/09/76	4 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01032 CHROMIUM, HEXAVALENT (UG/L AS CR)	08/31/76-09/09/76	3 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01034 CHROMIUM, TOTAL (UG/L AS CR)	10/10/74-10/10/74	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01042 COPPER, TOTAL (UG/L AS CU)	08/31/76-09/09/76	3 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01045 IRON, TOTAL (UG/L AS FE)	08/31/76-09/09/76	3	240.	193.333	270.	70.	11633.333	107.858	**	**	**	**
01051 LEAD, TOTAL (UG/L AS PB)	10/10/74-09/09/76	4 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01055 MANGANESE, TOTAL (UG/L AS MN)	08/31/76-09/09/76	3	50.	83.333	150.	50.	3333.333	57.735	**	**	**	**
01077 SILVER, TOTAL (UG/L AS AG)	10/10/74-09/09/76	4 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01092 ZINC, TOTAL (UG/L AS ZN)	08/31/76-09/09/76	3 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01147 SELENIUM, TOTAL (UG/L AS SE)	10/10/74-09/09/76	4 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
71850 NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/10/74-09/09/76	4 ##	0.	0.5	2.	0.	1.	1.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0100

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
71900 MERCURY, TOTAL (UG/L AS HG)	10/10/74-09/09/76	4 ##	0.	0.	0.	0.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0100

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00076 TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	4	2	0.50	1	1	1.00							3	1	0.33
00300 OXYGEN, DISSOLVED	Other-Lo Lim.	4.	4	0	0.00	1	0	0.00							3	0	0.00
00403 PH, LAB	Fresh Chronic	9.	4	0	0.00	1	0	0.00							3	0	0.00
	Other-Lo Lim.	6.5	4	1	0.25	1	1	1.00							3	0	0.00
00615 NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	4	0	0.00	1	0	0.00							3	0	0.00
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	3	0	0.00										3	0	0.00
	Drinking Water	250.	3	0	0.00										3	0	0.00
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	250.	3	0	0.00										3	0	0.00
00951 FLUORIDE, TOTAL AS F	Drinking Water	4.	3	0	0.00										3	0	0.00
01002 ARSENIC, TOTAL	Fresh Acute	360.	4	0	0.00	1	0	0.00							3	0	0.00
	Drinking Water	50.	4	0	0.00	1	0	0.00							3	0	0.00
01027 CADMIUM, TOTAL	Fresh Acute	3.9	4	0	0.00	1	0	0.00							3	0	0.00
	Drinking Water	5.	4	0	0.00	1	0	0.00							3	0	0.00
01032 CHROMIUM, HEXAVALENT	Fresh Acute	16.	3	0	0.00										3	0	0.00
	Drinking Water	100.	3	0	0.00										3	0	0.00
01034 CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00	1	0	0.00									
01042 COPPER, TOTAL	Fresh Acute	18.	3	0	0.00										3	0	0.00
	Drinking Water	1300.	3	0	0.00										3	0	0.00
01051 LEAD, TOTAL	Fresh Acute	82.	4	0	0.00	1	0	0.00							3	0	0.00
	Drinking Water	15.	4	0	0.00	1	0	0.00							3	0	0.00
01077 SILVER, TOTAL	Fresh Acute	4.1	4	0	0.00	1	0	0.00							3	0	0.00
	Drinking Water	100.	4	0	0.00	1	0	0.00							3	0	0.00
01092 ZINC, TOTAL	Fresh Acute	120.	3	0	0.00										3	0	0.00
	Drinking Water	5000.	3	0	0.00										3	0	0.00
01147 SELENIUM, TOTAL	Fresh Acute	20.	4	0	0.00	1	0	0.00							3	0	0.00
	Drinking Water	50.	4	0	0.00	1	0	0.00							3	0	0.00
71850 NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	4	0	0.00	1	0	0.00							3	0	0.00
71900 MERCURY, TOTAL	Fresh Acute	2.4	4	0	0.00	1	0	0.00							3	0	0.00
	Drinking Water	2.	4	0	0.00	1	0	0.00							3	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0101

NPS Station ID: TUZI0101
 Location: VERDE RIVER BLW SYCAMORE CR
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC:
 Major Basin:
 Minor Basin:
 RF1 Index:
 RF3 Index: 15060202081800.00
 Description:

LAT/LON: 34.857781/-112.072782

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.82

Agency: 112WRD
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): 345135112043001
 Within Park Boundary: No

Date Created: 01/11/92

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.10
 Distance from RF3: 0.23

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: TUZI0101

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/02/91-07/02/91	1	29.	29.	29.	29.	0.	0.	**	**	**	**
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/02/91-07/02/91	1	40.	40.	40.	40.	0.	0.	**	**	**	**
00025 BAROMETRIC PRESSURE (MM OF HG)	07/02/91-07/02/91	1	670.	670.	670.	670.	0.	0.	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS CFS	07/02/91-07/02/91	1	76.	76.	76.	76.	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/02/91-07/02/91	1	500.	500.	500.	500.	0.	0.	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	07/02/91-07/02/91	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)	07/02/91-07/02/91	1	8.42	8.42	8.42	8.42	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	07/02/91-07/02/91	1	8.42	8.42	8.42	8.42	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/02/91-07/02/91	1	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
00403 PH, LAB, STANDARD UNITS SU	07/02/91-07/02/91	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	07/02/91-07/02/91	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/02/91-07/02/91	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00452 CARBONATE, WATER, DISS, INCR TIT, FIELD, AS CO3, MG/L	07/02/91-07/02/91	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00453 BICARBONATE, WATER, DISS, INCR TIT, FIELD, AS HCO3, MG/L	07/02/91-07/02/91	1	273.	273.	273.	273.	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS CA)	07/02/91-07/02/91	1	47.	47.	47.	47.	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	07/02/91-07/02/91	1	23.	23.	23.	23.	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS NA)	07/02/91-07/02/91	1	25.	25.	25.	25.	0.	0.	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	07/02/91-07/02/91	1	2.4	2.4	2.4	2.4	0.	0.	**	**	**	**
00940 CHLORIDE, TOTAL IN WATER MG/L	07/02/91-07/02/91	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	07/02/91-07/02/91	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	07/02/91-07/02/91	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SI02)	07/02/91-07/02/91	1	17.	17.	17.	17.	0.	0.	**	**	**	**
01005 BARIUM, DISSOLVED (UG/L AS BA)	07/02/91-07/02/91	1	180.	180.	180.	180.	0.	0.	**	**	**	**
01080 STRONTIUM, DISSOLVED (UG/L AS SR)	07/02/91-07/02/91	1	190.	190.	190.	190.	0.	0.	**	**	**	**
39036 ALKALINITY, FILTERED SAMPLE AS CACO3 MG/L	07/02/91-07/02/91	1	244.	244.	244.	244.	0.	0.	**	**	**	**
39086 ALKALINITY, WATER, DISS, INCR TIT, FIELD, AS CACO3, MG/L	07/02/91-07/02/91	1	248.	248.	248.	248.	0.	0.	**	**	**	**
71865 IODIDE (MG/L AS I)	07/02/91-07/02/91	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
71870 BROMIDE (MG/L AS BR)	07/02/91-07/02/91	1	0.07	0.07	0.07	0.07	0.	0.	**	**	**	**
82082 DEUTERIUM/PROTIUM (H-2/H-1) STABLE ISOTOPE RATIO	07/02/91-07/02/91	1	-77.	-77.	-77.	-77.	0.	0.	**	**	**	**
82085 OXYGEN-18/OXYGEN-16 STABLE ISOTOPE RATIO PER MIL	07/02/91-07/02/91	1	-10.8	-10.8	-10.8	-10.8	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0101

Parameter	Std. Type	Std. Value	Total			-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
			Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300 OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00										1	0	0.00
00400 PH	Fresh Chronic	9.	1	0	0.00										1	0	0.00
	Other-Lo Lim.	6.5	1	0	0.00										1	0	0.00
00403 PH, LAB	Fresh Chronic	9.	1	0	0.00										1	0	0.00
	Other-Lo Lim.	6.5	1	0	0.00										1	0	0.00
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00										1	0	0.00
	Drinking Water	250.	1	0	0.00										1	0	0.00
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00										1	0	0.00
00950 FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00										1	0	0.00
01005 BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00										1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0102

NPS Station ID: TUZI0102
 Location: VERDE RIVER ABOVE SYCAMORE CREEK
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 15060202
 Major Basin: COLORADO RIVER
 Minor Basin: GILA**SALT**VERDE
 RF1 Index: 15060202
 RF3 Index: 15060202002514.22
 Description:

LAT/LON: 34.862781/-112.075003

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 19.14

Agency: 21ARIZ
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): 700000000023970/VR 011
 Within Park Boundary: No

Date Created: / /

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.15

On/Off RF1:
 On/Off RF3:

LAT 34 51'46", LONG 112 04'30", SE1/4 SE1/4, SEC 7, T17N, R3E, YAVAPAI CO, 17 KM (10.5 MI) NORTH OF CLARKDALE ON DIRT ROAD PAST TAPCO
 POWER PLANT, 30 M (33 YDS) UPSTREAM FROM CONFLUENCE WITH SYCAMORE CANYON, ON LEFT BANK, 239.7 KM (149.8 MI) UPSTREAM FROM CONFLUENCE WITH
 SALT RIVER.

Parameter Inventory for Station: TUZI0102

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/26/73-09/09/76	7	20.5	21.857	33.	10.	78.726	8.873	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS CFS	01/26/73-01/30/73	3	26.	39.	65.	26.	507.	22.517	**	**	**	**
00070 TURBIDITY, (JACKSON CANDLE UNITS)	08/07/73-08/23/73	3	5.	10.	20.	5.	75.	8.66	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/31/76-09/09/76	3	20.	46.	106.	12.	2716.	52.115	**	**	**	**
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/26/73-01/30/73	3	335.	253.333	360.	65.	26758.333	163.58	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/26/73-09/09/76	8	436.	424.	500.	340.	3706.571	60.882	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	08/07/73-09/09/76	5	10.	10.	11.5	9.	1.125	1.061	**	**	**	**
00310 BOD, 5 DAY, 20 DEG C MG/L	09/09/76-09/09/76	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)	01/30/73-01/30/73	1	7.75	7.75	7.75	7.75	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	01/30/73-01/30/73	1	7.75	7.75	7.75	7.75	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/30/73-01/30/73	1	0.018	0.018	0.018	0.018	0.	0.	**	**	**	**
00403 PH, LAB, STANDARD UNITS SU	01/26/73-09/09/76	8	8.3	8.262	8.5	8.	0.031	0.177	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	01/26/73-09/09/76	8	8.3	8.231	8.5	8.	0.032	0.18	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/26/73-09/09/76	8	0.005	0.006	0.01	0.003	0.	0.002	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	01/26/73-09/09/76	8	224.	221.25	252.	180.	749.643	27.38	**	**	**	**
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)	08/31/76-09/09/76	3	0.	0.	0.	0.	0.	0.	**	**	**	**
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	01/26/73-09/09/76	8	260.	254.5	290.	196.	961.143	31.002	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/09/76-09/09/76	1	30.	30.	30.	30.	0.	0.	**	**	**	**
00535 RESIDUE, VOLATILE NONFILTRABLE (MG/L)	09/09/76-09/09/76	1	50.	50.	50.	50.	0.	0.	**	**	**	**
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	01/26/73-09/09/76	5 ##	0.	0.002	0.005	0.	0.	0.003	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	01/26/73-09/09/76	6 ##	0.25	0.25	0.5	0.	0.075	0.274	**	**	**	**
00650 PHOSPHATE, TOTAL (MG/L AS PO4)	01/26/73-09/09/76	6 ##	0.028	0.072	0.2	0.	0.007	0.082	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	01/26/73-09/09/76	8	185.	183.5	224.	144.	810.	28.46	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	01/26/73-08/23/73	5	45.	44.2	53.	34.	73.7	8.585	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS Ca)	08/31/76-09/09/76	3	37.	37.667	43.	33.	25.333	5.033	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	01/26/73-08/23/73	5	18.	18.	23.	14.	13.5	3.674	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)	08/31/76-09/09/76	3	21.	20.667	23.	18.	6.333	2.517	**	**	**	**
00929 SODIUM, TOTAL (MG/L AS NA)	08/31/76-09/09/76	3	29.	29.333	30.	29.	0.333	0.577	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS NA)	01/26/73-08/23/73	5	26.	27.2	33.	24.	12.7	3.564	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	01/26/73-09/09/76	8	14.	14.	16.	11.	3.714	1.927	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	01/26/73-09/09/76	8	9.5	9.75	12.	8.	1.643	1.282	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0102

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00950	FLUORIDE, DISSOLVED (MG/L AS F)	01/26/73-01/30/73	2	0.235	0.235	0.24	0.23	0.	0.007	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	08/31/76-09/09/76	3	0.25	0.25	0.26	0.24	0.	0.01	**	**	**
00997	ARSENIC, INORGANIC TOT (UG/L AS AS)	01/30/73-08/23/73	2 ##	12.5	12.5	20.	5.	112.5	10.607	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	08/31/76-09/09/76	3	20.	20.	20.	20.	0.	0.	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	01/30/73-09/09/76	5 ##	0.	2.	5.	0.	7.5	2.739	**	**	**
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	08/31/76-09/09/76	3 ##	0.	0.	0.	0.	0.	0.	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	01/30/73-08/23/73	2 ##	15.	15.	25.	5.	200.	14.142	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	01/26/73-09/09/76	6 ##	12.5	12.5	25.	0.	187.5	13.693	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	01/26/73-09/09/76	6 ##	82.5	125.833	270.	25.	14454.167	120.225	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	01/30/73-09/09/76	5 ##	0.	10.	25.	0.	187.5	13.693	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	01/30/73-09/09/76	4 ##	12.5	43.75	150.	0.	5156.25	71.807	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	01/30/73-09/09/76	5 ##	0.	10.	25.	0.	187.5	13.693	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	01/30/73-09/09/76	5 ##	0.	10.	25.	0.	187.5	13.693	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	08/31/76-09/09/76	3 ##	0.	0.	0.	0.	0.	0.	**	**	**
31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	01/29/73-01/29/73	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**
31616	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	01/29/73-01/29/73	1 ##	-0.301	-0.301	-0.301	-0.301	0.	0.	**	**	**
31616	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C				0.5							
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	01/26/73-01/30/73	2	261.5	261.5	266.	257.	40.5	6.364	**	**	**
71850	NITRATE NITROGEN, TOTAL (MG/L AS NO3)	01/26/73-09/09/76	8 ##	0.5	0.563	2.	0.	0.388	0.623	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	01/30/73-09/09/76	5 ##	0.	0.1	0.25	0.	0.019	0.137	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0102

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	3	0	0.00									3	0	0.00
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	3	1	0.33									3	1	0.33
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	5	0	0.00									5	0	0.00
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00								
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00								
00403	PH, LAB	Fresh Chronic	9.	8	0	0.00	2	0	0.00						6	0	0.00
		Other-Lo Lim.	6.5	8	0	0.00	2	0	0.00						6	0	0.00
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	5	0	0.00	1	0	0.00						4	0	0.00
00940	CHLORIDE, TOTAL IN WATER	Fresh Acute	860.	8	0	0.00	2	0	0.00						6	0	0.00
		Drinking Water	250.	8	0	0.00	2	0	0.00						6	0	0.00
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	8	0	0.00	2	0	0.00						6	0	0.00
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	2	0	0.00	2	0	0.00								
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	3	0	0.00									3	0	0.00
00997	ARSENIC, INORGANIC TOT	Fresh Acute	360.	2	0	0.00	1	0	0.00						1	0	0.00
		Drinking Water	50.	2	0	0.00	1	0	0.00						1	0	0.00
01002	ARSENIC, TOTAL	Fresh Acute	360.	3	0	0.00									3	0	0.00
		Drinking Water	50.	3	0	0.00									3	0	0.00
01027	CADMIUM, TOTAL	Fresh Acute	3.9	3 &	0	0.00									3	0	0.00
		Drinking Water	5.	3 &	0	0.00									3	0	0.00
01032	CHROMIUM, HEXAVALENT	Fresh Acute	16.	3	0	0.00									3	0	0.00
		Drinking Water	100.	3	0	0.00									3	0	0.00
01034	CHROMIUM, TOTAL	Drinking Water	100.	2	0	0.00	1	0	0.00						1	0	0.00
01042	COPPER, TOTAL	Fresh Acute	18.	3 &	0	0.00									3	0	0.00
		Drinking Water	1300.	6	0	0.00	2	0	0.00						4	0	0.00
01051	LEAD, TOTAL	Fresh Acute	82.	5	0	0.00	1	0	0.00						4	0	0.00
		Drinking Water	15.	3 &	0	0.00									3	0	0.00
01077	SILVER, TOTAL	Fresh Acute	4.1	3 &	0	0.00									3	0	0.00
		Drinking Water	100.	5	0	0.00	1	0	0.00						4	0	0.00
01092	ZINC, TOTAL	Fresh Acute	120.	5	0	0.00	1	0	0.00						4	0	0.00
		Drinking Water	5000.	5	0	0.00	1	0	0.00						4	0	0.00
01147	SELENIUM, TOTAL	Fresh Acute	20.	3	0	0.00									3	0	0.00
		Drinking Water	50.	3	0	0.00									3	0	0.00
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	1	0	0.00	1	0	0.00								

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: TUZI0102

Parameter	Std. Type	Std. Value	Total		Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
			Obs				Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
71850 NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	8		0	0.00	2	0	0.00							6	0	0.00
71900 MERCURY, TOTAL	Fresh Acute	2.4	5		0	0.00	1	0	0.00							4	0	0.00
	Drinking Water	2.	5		0	0.00	1	0	0.00							4	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0103

NPS Station ID: TUZI0103
 Location: SYCAMORE CREEK AT MOUTH
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 15060202
 Major Basin:
 Minor Basin:
 RF1 Index: 15060202
 RF3 Index: 15060202003707.88
 Description:

LAT/LON: 34.863059/-112.076392

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 8.83

Agency: 112WRD
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): 345147112043500
 Within Park Boundary: No

Date Created: 07/15/77

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.02

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: TUZI0103

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/26/77-04/26/77	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS CFS	04/26/77-04/26/77	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/26/77-04/26/77	1	500.	500.	500.	500.	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)	04/26/77-04/26/77	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	04/26/77-04/26/77	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/26/77-04/26/77	1	0.013	0.013	0.013	0.013	0.	0.	**	**	**	**
00405 CARBON DIOXIDE (MG/L AS CO2)	04/26/77-04/26/77	1	6.6	6.6	6.6	6.6	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	04/26/77-04/26/77	1	270.	270.	270.	270.	0.	0.	**	**	**	**
00440 BICARBONATE ION (MG/L AS HCO3)	04/26/77-04/26/77	1	330.	330.	330.	330.	0.	0.	**	**	**	**
00445 CARBONATE ION (MG/L AS CO3)	04/26/77-04/26/77	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00631 NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/26/77-04/26/77	1	0.08	0.08	0.08	0.08	0.	0.	**	**	**	**
00660 PHOSPHATE, ORTHO (MG/L AS PO4)	04/26/77-04/26/77	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/26/77-04/26/77	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	04/26/77-04/26/77	1	280.	280.	280.	280.	0.	0.	**	**	**	**
00902 HARDNESS, NON-CARBONATE (MG/L AS CaCO3)	04/26/77-04/26/77	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	04/26/77-04/26/77	1	65.	65.	65.	65.	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	04/26/77-04/26/77	1	28.	28.	28.	28.	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS Na)	04/26/77-04/26/77	1	5.6	5.6	5.6	5.6	0.	0.	**	**	**	**
00931 SODIUM ADSORPTION RATIO	04/26/77-04/26/77	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00932 SODIUM, PERCENT	04/26/77-04/26/77	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	04/26/77-04/26/77	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
00940 CHLORIDE, TOTAL IN WATER MG/L	04/26/77-04/26/77	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	04/26/77-04/26/77	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	04/26/77-04/26/77	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SiO2)	04/26/77-04/26/77	1	14.	14.	14.	14.	0.	0.	**	**	**	**
01020 BORON, DISSOLVED (UG/L AS B)	04/26/77-04/26/77	1	80.	80.	80.	80.	0.	0.	**	**	**	**
01046 IRON, DISSOLVED (UG/L AS FE)	04/26/77-04/26/77	1	30.	30.	30.	30.	0.	0.	**	**	**	**
70300 RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L	04/26/77-04/26/77	1	278.	278.	278.	278.	0.	0.	**	**	**	**
70301 SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	04/26/77-04/26/77	1	291.	291.	291.	291.	0.	0.	**	**	**	**
70302 SOLIDS, DISSOLVED-TONS PER DAY	04/26/77-04/26/77	1	6.68	6.68	6.68	6.68	0.	0.	**	**	**	**
70303 SOLIDS, DISSOLVED-TONS PER ACRE-FT	04/26/77-04/26/77	1	0.38	0.38	0.38	0.38	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0103

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
							Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	0	0.00				1	0	0.00						
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00				1	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
		Drinking Water	250.	1	0	0.00				1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00				1	0	0.00						
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00				1	0	0.00						

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0104

NPS Station ID: TUZI0104
 Location: SYCAMORE CR
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC:
 Major Basin:
 Minor Basin:
 RF1 Index:
 RF3 Index: 15060202002523.09
 Description:

LAT/LON: 34.863892/-112.076948

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 23.31

Agency: 112WRD
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): 345147112043501
 Within Park Boundary: No

Date Created: 01/11/92

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 1.20
 Distance from RF3: 0.04

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: TUZI0104

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/02/91-07/02/91	1	23.	23.	23.	23.	0.	0.	**	**	**	**
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/02/91-07/02/91	1	34.	34.	34.	34.	0.	0.	**	**	**	**
00025 BAROMETRIC PRESSURE (MM OF HG)	07/02/91-07/02/91	1	670.	670.	670.	670.	0.	0.	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS CFS	07/02/91-07/02/91	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/02/91-07/02/91	1	520.	520.	520.	520.	0.	0.	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	07/02/91-07/02/91	1	8.6	8.6	8.6	8.6	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)	07/02/91-07/02/91	1	8.21	8.21	8.21	8.21	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	07/02/91-07/02/91	1	8.21	8.21	8.21	8.21	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/02/91-07/02/91	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
00403 PH, LAB, STANDARD UNITS SU	07/02/91-07/02/91	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	07/02/91-07/02/91	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/02/91-07/02/91	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00453 BICARBONATE, WATER, DISS, INCR TIT, FIELD, AS HCO3, MG/L	07/02/91-07/02/91	1	347.	347.	347.	347.	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS CA)	07/02/91-07/02/91	1	69.	69.	69.	69.	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	07/02/91-07/02/91	1	28.	28.	28.	28.	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS NA)	07/02/91-07/02/91	1	5.8	5.8	5.8	5.8	0.	0.	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	07/02/91-07/02/91	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**
00940 CHLORIDE, TOTAL IN WATER MG/L	07/02/91-07/02/91	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	07/02/91-07/02/91	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	07/02/91-07/02/91	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SI02)	07/02/91-07/02/91	1	14.	14.	14.	14.	0.	0.	**	**	**	**
01005 BARIUM, DISSOLVED (UG/L AS BA)	07/02/91-07/02/91	1	200.	200.	200.	200.	0.	0.	**	**	**	**
01080 STRONTIUM, DISSOLVED (UG/L AS SR)	07/02/91-07/02/91	1	120.	120.	120.	120.	0.	0.	**	**	**	**
39036 ALKALINITY, FILTERED SAMPLE AS CaCO3 MG/L	07/02/91-07/02/91	1	279.	279.	279.	279.	0.	0.	**	**	**	**
39086 ALKALINITY, WATER, DISS, INCR TIT, FIELD, AS CaCO3, MG/L	07/02/91-07/02/91	1	284.	284.	284.	284.	0.	0.	**	**	**	**
71865 IODIDE (MG/L AS I)	07/02/91-07/02/91	1	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
71870 BROMIDE (MG/L AS BR)	07/02/91-07/02/91	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
82082 DEUTERIUM/PROTIUM (H-2/H-1) STABLE ISOTOPE RATIO	07/02/91-07/02/91	1	-80.5	-80.5	-80.5	-80.5	0.	0.	**	**	**	**
82085 OXYGEN-18/OXYGEN-16 STABLE ISOTOPE RATIO PER MIL	07/02/91-07/02/91	1	-11.65	-11.65	-11.65	-11.65	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0104

Parameter	Std. Type	Std. Value	Total			-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
			Obs	Exceed Standard	Prop. Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300 OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00										1	0	0.00
00400 PH	Fresh Chronic	9.	1	0	0.00										1	0	0.00
	Other-Lo Lim.	6.5	1	0	0.00										1	0	0.00
00403 PH, LAB	Fresh Chronic	9.	1	0	0.00										1	0	0.00
	Other-Lo Lim.	6.5	1	0	0.00										1	0	0.00
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00										1	0	0.00
	Drinking Water	250.	1	0	0.00										1	0	0.00
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00										1	0	0.00
00950 FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00										1	0	0.00
01005 BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00										1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0105

NPS Station ID: TUZI0105 LAT/LON: 34.864115/-112.074310

Location: NURE STATION WITHIN TEN MILES OF MONUMENT

Station Type: /TYPA/AMBNT/STREAM

RMI-Indexes:

RMI-Miles:

HUC: 15060202

Major Basin: COLORADO RIVER

Minor Basin: GILA RIVER

RF1 Index: 15060202

RF3 Index: 15060202002505.59

Description:

THE SITE IS LOCATED ON THE CLARKDALE; YAVAPAI CO-AZ 1:24000 SERIES USGS TOPOGRAPHIC QUADRANGLE. THE SITE IS LOCATED ON A STREAM OUTSIDE THE TUZIGOOT NATIONAL MONUMENT BOUNDARIES. THE SAMPLES ARE FILTERED THROUGH A 0.45 MICRON FILTER. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY; NATIONAL GEOCHEMICAL DATA BASE; NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE SAMPLES WERE ANALYZED BY LAWRENCE LIVERMORE LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY MARY BETH TALTY OF NPS-WRD FORT COLLINS; CO 80525. TEL. (970) 225-3516.

Agency: 11NPSWRD

FIPS State/County: 04025 ARIZONA/YAVAPAI

STORET Station ID(s): TUZI_NURE_7 /NURE_8084981

Within Park Boundary: No

Date Created: 04/18/98

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 6.29

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.01

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: TUZI0105

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/23/78-03/23/78	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/23/78-03/23/78	1	116.	116.	116.	116.	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)	03/23/78-03/23/78	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	03/23/78-03/23/78	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/23/78-03/23/78	1	0.013	0.013	0.013	0.013	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	03/23/78-03/23/78	1	60.	60.	60.	60.	0.	0.	**	**	**	**
00666 PHOSPHORUS, DISSOLVED (MG/L AS P)	03/23/78-03/23/78	1	0.235	0.235	0.235	0.235	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	03/23/78-03/23/78	1	11.3	11.3	11.3	11.3	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	03/23/78-03/23/78	1	3.8	3.8	3.8	3.8	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS Na)	03/23/78-03/23/78	1	2.16	2.16	2.16	2.16	0.	0.	**	**	**	**
00946 SULFATE, DISSOLVED (MG/L AS SO4)	03/23/78-03/23/78	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01000 ARSENIC, DISSOLVED (UG/L AS AS)	03/23/78-03/23/78	1 ##	45.	45.	45.	45.	0.	0.	**	**	**	**
01025 CADMIUM, DISSOLVED (UG/L AS CD)	03/23/78-03/23/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01040 COPPER, DISSOLVED (UG/L AS CU)	03/23/78-03/23/78	1	15.	15.	15.	15.	0.	0.	**	**	**	**
01046 IRON, DISSOLVED (UG/L AS FE)	03/23/78-03/23/78	1	458.	458.	458.	458.	0.	0.	**	**	**	**
01060 MOLYBDENUM, DISSOLVED (UG/L AS MO)	03/23/78-03/23/78	1 ##	4.5	4.5	4.5	4.5	0.	0.	**	**	**	**
01085 VANADIUM, DISSOLVED (UG/L AS V)	03/23/78-03/23/78	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01090 ZINC, DISSOLVED (UG/L AS ZN)	03/23/78-03/23/78	1	61.	61.	61.	61.	0.	0.	**	**	**	**
01106 ALUMINUM, DISSOLVED (UG/L AS AL)	03/23/78-03/23/78	1	732.	732.	732.	732.	0.	0.	**	**	**	**
01130 LITHIUM, DISSOLVED (UG/L AS LI)	03/23/78-03/23/78	1 ##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
01140 SILICON, DISSOLVED (UG/L AS SI)	03/23/78-03/23/78	1	7827.	7827.	7827.	7827.	0.	0.	**	**	**	**
01150 TITANIUM, DISSOLVED (UG/L AS TI)	03/23/78-03/23/78	1	21.	21.	21.	21.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0105

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
22703 URANIUM, NATURAL, DISSOLVED	03/23/78-03/23/78	1	0.11	0.11	0.11	0.11	0.	0.	**	**	**	**
50760 CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	03/23/78-03/23/78	1	2000.	2000.	2000.	2000.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0105

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400 PH	Fresh Chronic	9.	1	0	0.00				1	0	0.00						
	Other-Lo Lim.	6.5	1	0	0.00				1	0	0.00						
00946 SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	1	0	0.00				1	0	0.00						
	Fresh Acute	360.	1	0	0.00				1	0	0.00						
01000 ARSENIC, DISSOLVED	Drinking Water	50.	1	0	0.00				1	0	0.00						
	Fresh Acute	3.9	1	0	0.00				1	0	0.00						
01025 CADMIUM, DISSOLVED	Drinking Water	5.	1	0	0.00				1	0	0.00						
	Fresh Acute	18.	1	0	0.00				1	0	0.00						
01040 COPPER, DISSOLVED	Drinking Water	1300.	1	0	0.00				1	0	0.00						
	Fresh Acute	120.	1	0	0.00				1	0	0.00						
01090 ZINC, DISSOLVED	Drinking Water	5000.	1	0	0.00				1	0	0.00						
	Fresh Acute	20.	1	0	0.00				1	0	0.00						
22703 URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00				1	0	0.00						

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0106

NPS Station ID: TUZI0106
 Location: SYCAMORE CREEK AT MOUTH
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC: 15060202
 Major Basin: COLORADO RIVER
 Minor Basin: GILA**SALT**VERDE
 RF1 Index: 15060202
 RF3 Index: 15060202075602.54
 Description:

LAT/LON: 34.864726/-112.073059

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 4.43

Agency: 21ARIZ
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): 7020000000000000/VR 012
 Within Park Boundary: No

Date Created: / /

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 0.00
 Distance from RF3: 0.03

On/Off RF1:
 On/Off RF3:

LAT 34 51'53", LONG 112 04'23", SW1/4 SW1/4, SEC 8, T17N, R3E, YAVAPAI CO, 17 KM (10.5 MI) NORTH OF CLARKDALE ON DIRT ROAD PAST TAPCO
 POWER PLANT, 150 M (165 YDS) UPSTREAM FROM CONFLUENCE WITH VERDE RIVER, ON LEFT BANK, 239.8 KM (149.9 MI) UPSTREAM FROM CONFLUENCE WITH SALT RIVER.

Parameter Inventory for Station: TUZI0106

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/26/73-09/02/76	8	16.	18.563	32.	6.	90.531	9.515	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS CFS	01/26/73-08/15/73	4	12.	58.75	200.	11.	8867.583	94.168	**	**	**	**
00070 TURBIDITY, (JACKSON CANDLE UNITS)	02/07/73-08/23/73	4	0.8	19.225	75.	0.3	1382.683	37.184	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/31/76-09/09/76	3	2.	1.333	2.	0.	1.333	1.155	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/26/73-09/09/76	9	449.	411.667	541.	165.	15347.75	123.886	165.	310.	505.	541.
00300 OXYGEN, DISSOLVED MG/L	08/07/73-08/31/76	4	9.	9.125	10.	8.5	0.396	0.629	**	**	**	**
00310 BOD, 5 DAY, 20 DEG C MG/L	09/09/76-09/09/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00403 PH, LAB, STANDARD UNITS SU	01/26/73-09/09/76	9	8.	8.011	8.3	7.7	0.036	0.19	7.7	7.9	8.15	8.3
00403 CONVERTED PH, LAB, STANDARD UNITS	01/26/73-09/09/76	9	8.	7.976	8.3	7.7	0.038	0.194	7.7	7.9	8.15	8.3
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/26/73-09/09/76	9	0.01	0.011	0.02	0.005	0.	0.004	0.005	0.008	0.013	0.02
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	01/26/73-09/09/76	9	252.	224.	300.	72.	5375.	73.314	72.	169.	277.	300.
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)	08/31/76-09/09/76	3	0.	0.	0.	0.	0.	0.	**	**	**	**
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/07/73-09/09/76	6	223.	233.333	308.	184.	2418.667	49.18	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/07/73-02/07/73	1	76.	76.	76.	76.	0.	0.	**	**	**	**
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	01/26/73-09/09/76	5 ##	0.	0.009	0.04	0.	0.	0.017	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	01/26/73-09/09/76	6 ##	0.25	0.25	0.5	0.	0.075	0.274	**	**	**	**
00650 PHOSPHATE, TOTAL (MG/L AS PO4)	01/26/73-09/09/76	7 ##	0.025	0.036	0.1	0.	0.001	0.032	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	01/26/73-09/09/76	9	220.	221.111	300.	78.	5529.111	74.358	78.	178.	289.	300.
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	01/26/73-08/23/73	6	52.5	49.667	75.	22.	541.867	23.278	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS Ca)	08/31/76-09/09/76	3	47.	44.667	50.	37.	46.333	6.807	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	01/26/73-08/23/73	6	25.	22.333	31.	6.	72.667	8.524	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)	08/31/76-09/09/76	3	24.	28.667	40.	22.	97.333	9.866	**	**	**	**
00929 SODIUM, TOTAL (MG/L AS Na)	08/31/76-09/09/76	3	6.	5.667	6.	5.	0.333	0.577	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS Na)	01/26/73-08/23/73	6	5.	4.667	8.	1.	5.067	2.251	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	01/26/73-09/09/76	9	7.	7.111	10.	1.	7.361	2.713	1.	6.	9.	10.
00945 SULFATE, TOTAL (MG/L AS SO4)	01/26/73-09/09/76	9	7.	9.111	16.	3.	28.611	5.349	3.	5.	16.	16.
00950 FLUORIDE, DISSOLVED (MG/L AS F)	01/26/73-02/07/73	3	0.09	0.08	0.11	0.04	0.001	0.036	**	**	**	**
00951 FLUORIDE, TOTAL (MG/L AS F)	08/31/76-09/09/76	3	0.11	0.107	0.11	0.1	0.	0.006	**	**	**	**
00997 ARSENIC, INORGANIC TOT (UG/L AS AS)	01/30/73-08/23/73	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01002 ARSENIC, TOTAL (UG/L AS AS)	08/31/76-09/09/76	3	10.	10.	10.	10.	0.	0.	**	**	**	**
01027 CADMIUM, TOTAL (UG/L AS CD)	01/30/73-09/09/76	6 ##	2.5	2.5	5.	0.	7.5	2.739	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0106

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	08/31/76-09/09/76	3 ##	0.	0.	0.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	01/30/73-08/23/73	3 ##	25.	18.333	25.	133.333	11.547	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	01/26/73-09/09/76	7 ##	25.	14.286	25.	178.571	13.363	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	01/26/73-09/09/76	8 ##	25.	49.375	110.	1245.982	35.298	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	01/30/73-09/09/76	6 ##	12.5	12.5	25.	187.5	13.693	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	01/30/73-09/09/76	4 ##	0.	6.25	25.	156.25	12.5	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	01/30/73-09/09/76	6 ##	2.5	5.833	25.	94.167	9.704	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	01/30/73-09/09/76	6 ##	12.5	28.333	120.	2166.667	46.547	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	08/31/76-09/09/76	3 ##	0.	0.	0.	0.	0.	**	**	**	**
31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	01/29/73-08/23/73	3	2.	3.833	9.	20.583	4.537	**	**	**	**
31616	LOG FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	01/29/73-08/23/73	3	0.301	0.318	0.954	-0.301	0.628	**	**	**	**
31616	GM FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	GEOMETRIC MEAN = 2.08										
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	01/26/73-02/07/73	3	279.	216.667	281.	12034.333	109.701	**	**	**	**
71850	NITRATE NITROGEN, TOTAL (MG/L AS NO3)	01/26/73-09/09/76	9 ##	0.5	0.333	0.5	0.	0.063	0.25	0.	0.5	0.5
71900	MERCURY, TOTAL (UG/L AS HG)	01/30/73-09/09/76	6 ##	0.125	0.125	0.25	0.	0.019	0.137	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0106

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim. 50.	4	1	0.25	1	1	1.00							3	0	0.00
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim. 50.	3	0	0.00										3	0	0.00
00300	OXYGEN, DISSOLVED	Other-Lo Lim. 4.	4	0	0.00										4	0	0.00
00403	PH, LAB	Fresh Chronic 9.	9	0	0.00	3	0	0.00							6	0	0.00
		Other-Lo Lim. 6.5	9	0	0.00	3	0	0.00							6	0	0.00
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water 1.	5	0	0.00	1	0	0.00							4	0	0.00
00940	CHLORIDE, TOTAL IN WATER	Fresh Acute 860.	9	0	0.00	3	0	0.00							6	0	0.00
		Drinking Water 250.	9	0	0.00	3	0	0.00							6	0	0.00
00945	SULFATE, TOTAL (AS SO4)	Drinking Water 250.	9	0	0.00	3	0	0.00							6	0	0.00
00950	FLUORIDE, DISSOLVED AS F	Drinking Water 4.	3	0	0.00	3	0	0.00									
00951	FLUORIDE, TOTAL AS F	Drinking Water 4.	3	0	0.00										3	0	0.00
00997	ARSENIC, INORGANIC TOT	Fresh Acute 360.	3	0	0.00	1	0	0.00							2	0	0.00
		Drinking Water 50.	3	0	0.00	1	0	0.00							2	0	0.00
01002	ARSENIC, TOTAL	Fresh Acute 360.	3	0	0.00										3	0	0.00
		Drinking Water 50.	3	0	0.00										3	0	0.00
01027	CADMIUM, TOTAL	Fresh Acute 3.9	3 &	0	0.00										3	0	0.00
		Drinking Water 5.	3 &	0	0.00										3	0	0.00
01032	CHROMIUM, HEXAVALENT	Fresh Acute 16.	3	0	0.00										3	0	0.00
		Drinking Water 100.	3	0	0.00										3	0	0.00
01034	CHROMIUM, TOTAL	Drinking Water 100.	3	0	0.00	1	0	0.00							2	0	0.00
01042	COPPER, TOTAL	Fresh Acute 18.	3 &	0	0.00										3	0	0.00
		Drinking Water 1300.	7	0	0.00	3	0	0.00							4	0	0.00
01051	LEAD, TOTAL	Fresh Acute 82.	6	0	0.00	1	0	0.00							5	0	0.00
		Drinking Water 15.	3 &	0	0.00										3	0	0.00
01077	SILVER, TOTAL	Fresh Acute 4.1	3 &	0	0.00										3	0	0.00
		Drinking Water 100.	6	0	0.00	1	0	0.00							5	0	0.00
01092	ZINC, TOTAL	Fresh Acute 120.	6	1	0.17	1	1	1.00							5	0	0.00
		Drinking Water 5000.	6	0	0.00	1	0	0.00							5	0	0.00
01147	SELENIUM, TOTAL	Fresh Acute 20.	3	0	0.00										3	0	0.00
		Drinking Water 50.	3	0	0.00										3	0	0.00
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim. 200.	3	0	0.00	1	0	0.00							2	0	0.00
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water 44.	9	0	0.00	3	0	0.00							6	0	0.00
71900	MERCURY, TOTAL	Fresh Acute 2.4	6	0	0.00	1	0	0.00							5	0	0.00
		Drinking Water 2.	6	0	0.00	1	0	0.00							5	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0107

NPS Station ID: TUZI0107

Location: SYCAMORE CREEK ABOVE PACKARD RNH

Station Type: /TYPA/AMBNT/STREAM

RMI-Indexes:

RMI-Miles:

HUC: 15060202

Major Basin: LOWER COLORADO-SALT

Minor Basin: VERDE-UPPER VERDE

RF1 Index: 15060202026

RF3 Index: 15060202003707.88

Description:

SYCAMORE CAN

LAT/LON: 34.866115/-112.068338

Depth of Water: 0

Elevation: 0

RF1 Mile Point: 0.790

RF3 Mile Point: 9.00

Agency: 113FORS3

FIPS State/County: 04025 ARIZONA/YAVAPAI

STORET Station ID(s): 090501 /FS0309186

Within Park Boundary: No

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.06

Date Created: 11/20/78

On/Off RF1: OFF

On/Off RF3:

STATION ESTAB 9/19/78. SAMPLING STATION LOCATED IN SYCAMORE CREEK WHERE THE TRAIL DROPS INTO BOTTOM OF CANYON APPROXIMATELY 1/4 MI (.4KM) ABOVE PACKARD RANCH, T17N,R3E, SEC.8,NW1/4,SW1/4, G&SRBM, PRESCOTT NATIONAL FOREST, YAVAPAI COUNTY, AZ. ELEV 3600FT (1097M). DRAINAGE AREA 412 SQ MI (1067 SQ KM). PURPOSE: ESTABLISH BASELINE DATA AND EVALUATE EFFECTS OF GRAZING AND BACKPACKER USE IN SYCAMORE WILDERNESS AREA. GRAB SAMPLE COLLECTED QUARTERLY. ANALYSIS WITH HACH DR-EL/2 SPECTROPHOTOMETER AND RELATED LAB EQUIPMENT AT FOREST LAB IN PRESCOTT, AZ. TWENTY PARAMETERS ANALYZED. BENEFICIAL USES ARE GRAZING AND WILDLIFE. RECORDS MAINTAINED BY HYDROLOGIST AT SUPERVISOR'S OFFICE, PRESCOTT, AZ. 602-445-1762, FTS 8-762-7431.

Parameter Inventory for Station: TUZI0107

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
***** No Parameter Data Available for this Station *****												

Station Inventory for Station: TUZI0108

NPS Station ID: TUZI0108
 Location: VERDE RIVER BLW MORMON POCKET
 Station Type: /TYPA/AMBNT/STREAM
 RMI-Indexes:
 RMI-Miles:
 HUC:
 Major Basin:
 Minor Basin:
 RF1 Index:
 RF3 Index: 15060202073800.00
 Description:

LAT/LON: 34.878893/-112.130838

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.47

Agency: 112WRD
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): 345216112074901
 Within Park Boundary: No

Date Created: 01/11/92

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.00
 Distance from RF3: 0.10

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: TUZI0108

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/04/91-07/04/91	1	26.	26.	26.	26.	0.	0.	**	**	**	**
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/04/91-07/04/91	1	32.	32.	32.	32.	0.	0.	**	**	**	**
00025 BAROMETRIC PRESSURE (MM OF HG)	07/04/91-07/04/91	1	673.	673.	673.	673.	0.	0.	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS CFS	07/04/91-07/04/91	1	48.	48.	48.	48.	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/04/91-07/04/91	1	513.	513.	513.	513.	0.	0.	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	07/04/91-07/04/91	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)	07/04/91-07/04/91	1	8.38	8.38	8.38	8.38	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	07/04/91-07/04/91	1	8.38	8.38	8.38	8.38	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/04/91-07/04/91	1	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
00403 PH, LAB, STANDARD UNITS SU	07/04/91-07/04/91	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	07/04/91-07/04/91	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/04/91-07/04/91	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
00452 CARBONATE, WATER, DISS, INCR TIT, FIELD, AS CO3, MG/L	07/04/91-07/04/91	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00453 BICARBONATE, WATER, DISS, INCR TIT, FIELD, AS HCO3, MG/L	07/04/91-07/04/91	1	266.	266.	266.	266.	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS CA)	07/04/91-07/04/91	1	43.	43.	43.	43.	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	07/04/91-07/04/91	1	23.	23.	23.	23.	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS NA)	07/04/91-07/04/91	1	28.	28.	28.	28.	0.	0.	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	07/04/91-07/04/91	1	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
00940 CHLORIDE, TOTAL IN WATER MG/L	07/04/91-07/04/91	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	07/04/91-07/04/91	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	07/04/91-07/04/91	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SI02)	07/04/91-07/04/91	1	19.	19.	19.	19.	0.	0.	**	**	**	**
01005 BARIUM, DISSOLVED (UG/L AS BA)	07/04/91-07/04/91	1	190.	190.	190.	190.	0.	0.	**	**	**	**
01080 STRONTIUM, DISSOLVED (UG/L AS SR)	07/04/91-07/04/91	1	210.	210.	210.	210.	0.	0.	**	**	**	**
39036 ALKALINITY, FILTERED SAMPLE AS CACO3 MG/L	07/04/91-07/04/91	1	234.	234.	234.	234.	0.	0.	**	**	**	**
39086 ALKALINITY, WATER, DISS, INCR TIT, FIELD, AS CACO3, MG/L	07/04/91-07/04/91	1	238.	238.	238.	238.	0.	0.	**	**	**	**
71865 IODIDE (MG/L AS I)	07/04/91-07/04/91	1	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
71870 BROMIDE (MG/L AS BR)	07/04/91-07/04/91	1	0.07	0.07	0.07	0.07	0.	0.	**	**	**	**
82081 CARBON-13 / CARBON-12 STABLE ISOTOPE RATIO PER MIL	07/04/91-07/04/91	1	-5.	-5.	-5.	-5.	0.	0.	**	**	**	**
82082 DEUTERIUM/PROTIUM (H-2/H-1) STABLE ISOTOPE RATIO	07/04/91-07/04/91	1	-76.5	-76.5	-76.5	-76.5	0.	0.	**	**	**	**
82085 OXYGEN-18/OXYGEN-16 STABLE ISOTOPE RATIO PER MIL	07/04/91-07/04/91	1	-10.75	-10.75	-10.75	-10.75	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0108

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300 OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00										1	0	0.00
00400 PH	Fresh Chronic	9.	1	0	0.00										1	0	0.00
	Other-Lo Lim.	6.5	1	0	0.00										1	0	0.00
00403 PH, LAB	Fresh Chronic	9.	1	0	0.00										1	0	0.00
	Other-Lo Lim.	6.5	1	0	0.00										1	0	0.00
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00										1	0	0.00
	Drinking Water	250.	1	0	0.00										1	0	0.00
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00										1	0	0.00
00950 FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00										1	0	0.00
01005 BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00										1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0109

NPS Station ID: TUZI0109
 Location: A-17-03 05DBD
 Station Type: /TYPA/AMBNT/SPRING
 RMI-Indexes:
 RMI-Miles:
 HUC: 15060202
 Major Basin:
 Minor Basin:
 RF1 Index: 15060202
 RF3 Index: 15060202007200.00
 Description:

LAT/LON: 34.880004/-112.057781

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 1.45

Agency: 112WRD
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): 345248112032801
 Within Park Boundary: No

Date Created: 02/28/78

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 14.20
 Distance from RF3: 0.09

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: TUZI0109

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/10/51-12/13/52	3	19.5	19.5	19.5	19.5	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/10/51-12/13/52	3	525.	529.333	543.	520.	146.333	12.097	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	10/10/51-12/13/52	3	280.	279.333	280.	278.	1.333	1.155	**	**	**	**
00440 BICARBONATE ION (MG/L AS HCO3)	10/10/51-12/13/52	3	341.	340.333	341.	339.	1.333	1.155	**	**	**	**
00445 CARBONATE ION (MG/L AS CO3)	10/10/51-12/13/52	3	0.	0.	0.	0.	0.	0.	**	**	**	**
00618 NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/10/51-10/10/51	1	0.34	0.34	0.34	0.34	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	10/10/51-10/10/51	1	290.	290.	290.	290.	0.	0.	**	**	**	**
00902 HARDNESS, NON-CARBONATE (MG/L AS CaCO3)	10/10/51-10/10/51	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	10/10/51-10/10/51	1	72.	72.	72.	72.	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS Mg)	10/10/51-10/10/51	1	27.	27.	27.	27.	0.	0.	**	**	**	**
00932 SODIUM, PERCENT	10/10/51-10/10/51	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00933 SODIUM,PLUS POTASSIUM (MG/L)	10/10/51-10/10/51	1	5.8	5.8	5.8	5.8	0.	0.	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	10/10/51-12/13/52	3	6.	7.333	10.	6.	5.333	2.309	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	10/10/51-10/10/51	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	10/10/51-10/10/51	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SiO2)	10/10/51-10/10/51	1	15.	15.	15.	15.	0.	0.	**	**	**	**
70301 SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/10/51-10/10/51	1	307.	307.	307.	307.	0.	0.	**	**	**	**
70303 SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/10/51-10/10/51	1	0.42	0.42	0.42	0.42	0.	0.	**	**	**	**
71851 NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/10/51-10/10/51	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0109

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00618 NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	3	0	0.00	2	0	0.00	1	0	0.00						
	Drinking Water	250.	3	0	0.00	2	0	0.00	1	0	0.00						
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00									
00950 FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00	1	0	0.00									
71851 NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0110

NPS Station ID: TUZI0110 LAT/LON: 34.881309/-112.065809

Location: NURE STATION WITHIN TEN MILES OF MONUMENT

Station Type: /TYPA/AMBNT/SPRING

RMI-Indexes:

RMI-Miles:

HUC: 15060202

Major Basin: COLORADO RIVER

Minor Basin: GILA RIVER

RF1 Index: 15060202

RF3 Index: 15060202002505.59

Description:

THE SITE IS LOCATED ON THE SYCAMORE BASIN; YAVAPAI CO-AZ 1:24000 SERIES USGS TOPOGRAPHIC QUADRANGLE. THE SITE IS LOCATED ON A SPRING OUTSIDE THE TUZIGOOT NATIONAL MONUMENT BOUNDARIES. THE SAMPLES ARE FILTERED THROUGH A 0.45 MICRON FILTER. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY; NATIONAL GEOCHEMICAL DATA BASE; NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE SAMPLES WERE ANALYZED BY LAWRENCE LIVERMORE LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY MARY BETH TALTY OF NPS-WRD FORT COLLINS; CO 80525. TEL. (970) 225-3516.

Agency: 11NPSWRD

FIPS State/County: 04025 ARIZONA/YAVAPAI

STORET Station ID(s): TUZI_NURE_6/NURE_8085121

Within Park Boundary: No

Date Created: 04/18/98

Depth of Water: 0

Elevation: 0

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.01

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: TUZI0110

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/21/78-07/21/78	1	20.5	20.5	20.5	20.5	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/21/78-07/21/78	1	578.	578.	578.	578.	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)	07/21/78-07/21/78	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	07/21/78-07/21/78	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/21/78-07/21/78	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	07/21/78-07/21/78	1	292.	292.	292.	292.	0.	0.	**	**	**	**
00666 PHOSPHORUS, DISSOLVED (MG/L AS P)	07/21/78-07/21/78	1	0.265	0.265	0.265	0.265	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	07/21/78-07/21/78	1	69.6	69.6	69.6	69.6	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	07/21/78-07/21/78	1	26.4	26.4	26.4	26.4	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS Na)	07/21/78-07/21/78	1	16.17	16.17	16.17	16.17	0.	0.	**	**	**	**
00946 SULFATE, DISSOLVED (MG/L AS SO4)	07/21/78-07/21/78	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01000 ARSENIC, DISSOLVED (UG/L AS AS)	07/21/78-07/21/78	1	106.	106.	106.	106.	0.	0.	**	**	**	**
01025 CADMIUM, DISSOLVED (UG/L AS CD)	07/21/78-07/21/78	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01040 COPPER, DISSOLVED (UG/L AS CU)	07/21/78-07/21/78	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01046 IRON, DISSOLVED (UG/L AS FE)	07/21/78-07/21/78	1	9.	9.	9.	9.	0.	0.	**	**	**	**
01060 MOLYBDENUM, DISSOLVED (UG/L AS MO)	07/21/78-07/21/78	1	29.	29.	29.	29.	0.	0.	**	**	**	**
01085 VANADIUM, DISSOLVED (UG/L AS V)	07/21/78-07/21/78	1	9.	9.	9.	9.	0.	0.	**	**	**	**
01090 ZINC, DISSOLVED (UG/L AS ZN)	07/21/78-07/21/78	1	17.	17.	17.	17.	0.	0.	**	**	**	**
01106 ALUMINUM, DISSOLVED (UG/L AS AL)	07/21/78-07/21/78	1	108.	108.	108.	108.	0.	0.	**	**	**	**
01130 LITHIUM, DISSOLVED (UG/L AS LI)	07/21/78-07/21/78	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01140 SILICON, DISSOLVED (UG/L AS SI)	07/21/78-07/21/78	1	7702.	7702.	7702.	7702.	0.	0.	**	**	**	**
01150 TITANIUM, DISSOLVED (UG/L AS TI)	07/21/78-07/21/78	1	2.	2.	2.	2.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: TUZI0110

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
22703 URANIUM, NATURAL, DISSOLVED	07/21/78-07/21/78	1	1.86	1.86	1.86	1.86	0.	0.	**	**	**	**
50760 CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/21/78-07/21/78	1	27000.	27000.	27000.	27000.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0110

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400 PH	Fresh Chronic	9.	1	0	0.00										1	0	0.00
	Other-Lo Lim.	6.5	1	0	0.00										1	0	0.00
00946 SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	1	0	0.00										1	0	0.00
	Fresh Acute	360.	1	0	0.00										1	0	0.00
01000 ARSENIC, DISSOLVED	Drinking Water	50.	1	1	1.00										1	1	1.00
	Fresh Acute	3.9	1	0	0.00										1	0	0.00
01025 CADMIUM, DISSOLVED	Drinking Water	5.	1	0	0.00										1	0	0.00
	Fresh Acute	18.	1	0	0.00										1	0	0.00
01040 COPPER, DISSOLVED	Drinking Water	1300.	1	0	0.00										1	0	0.00
	Fresh Acute	120.	1	0	0.00										1	0	0.00
01090 ZINC, DISSOLVED	Drinking Water	5000.	1	0	0.00										1	0	0.00
	Fresh Acute	20.	1	0	0.00										1	0	0.00
22703 URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00										1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0111

NPS Station ID: TUZI0111
 Location: A-17-03 05D UNSURV
 Station Type: /TYPA/AMBNT/SPRING
 RMI-Indexes:
 RMI-Miles:
 HUC: 15060202
 Major Basin:
 Minor Basin:
 RF1 Index: 15060202
 RF3 Index: 15060202049000.00
 Description:

LAT/LON: 34.881670/-112.066393

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.53

Agency: 112WRD
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): 345254112035901
 Within Park Boundary: No

Date Created: 02/28/78

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 10.70
 Distance from RF3: 0.50

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: TUZI0111

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/10/51-12/13/52	3	19.5	19.5	19.5	19.5	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/10/51-12/13/52	3	525.	529.333	543.	520.	146.333	12.097	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	10/10/51-12/13/52	3	279.	279.	280.	278.	1.	1.	**	**	**	**
00440 BICARBONATE ION (MG/L AS HCO3)	10/10/51-12/13/52	3	340.	340.	341.	339.	1.	1.	**	**	**	**
00445 CARBONATE ION (MG/L AS CO3)	02/16/52-12/13/52	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00618 NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/10/51-10/10/51	1	0.34	0.34	0.34	0.34	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	10/10/51-10/10/51	1	290.	290.	290.	290.	0.	0.	**	**	**	**
00902 HARDNESS, NON-CARBONATE (MG/L AS CaCO3)	10/10/51-10/10/51	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	10/10/51-10/10/51	1	72.	72.	72.	72.	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	10/10/51-10/10/51	1	27.	27.	27.	27.	0.	0.	**	**	**	**
00932 SODIUM, PERCENT	10/10/51-10/10/51	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00933 SODIUM,PLUS POTASSIUM (MG/L)	10/10/51-10/10/51	1	5.8	5.8	5.8	5.8	0.	0.	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	10/10/51-12/13/52	3	6.	7.333	10.	6.	5.333	2.309	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	10/10/51-10/10/51	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	10/10/51-10/10/51	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SiO2)	10/10/51-10/10/51	1	15.	15.	15.	15.	0.	0.	**	**	**	**
70301 SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/10/51-10/10/51	1	307.	307.	307.	307.	0.	0.	**	**	**	**
71851 NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/10/51-10/10/51	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0111

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00618 NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	3	0	0.00	2	0	0.00	1	0	0.00						
	Drinking Water	250.	3	0	0.00	2	0	0.00	1	0	0.00						
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00									
00950 FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00	1	0	0.00									
71851 NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0112

NPS Station ID: TUZI0112
 Location: A-17-03 05D UNSURV
 Station Type: /TYPA/AMBNT/SPRING
 RMI-Indexes:
 RMI-Miles:
 HUC: 15060202
 Major Basin:
 Minor Basin:
 RF1 Index: 15060202
 RF3 Index: 15060202001805.72
 Description:

LAT/LON: 34.881948/-112.066116

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 6.28

Agency: 112WRD
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): 345255112035801
 Within Park Boundary: No

Date Created: 05/17/80

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 3.30
 Distance from RF3: 0.17

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: TUZI0112

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/10/51-08/01/94	4	19.5	19.375	19.5	19.	0.063	0.25	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/10/51-08/01/94	4	534.	533.25	545.	520.	158.917	12.606	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	08/01/94-08/01/94	1	5.8	5.8	5.8	5.8	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)	08/01/94-08/01/94	1	7.26	7.26	7.26	7.26	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	08/01/94-08/01/94	1	7.26	7.26	7.26	7.26	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/01/94-08/01/94	1	0.055	0.055	0.055	0.055	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	10/10/51-08/01/94	4	279.	276.5	280.	268.	33.	5.745	**	**	**	**
00440 BICARBONATE ION (MG/L AS HCO3)	10/10/51-12/13/52	3	341.	340.333	341.	339.	1.333	1.155	**	**	**	**
00608 NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	08/01/94-08/01/94	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00613 NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/01/94-08/01/94	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00631 NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/01/94-08/01/94	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/01/94-08/01/94	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	10/10/51-10/10/51	1	290.	290.	290.	290.	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	10/10/51-10/10/51	1	72.	72.	72.	72.	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	10/10/51-10/10/51	1	27.	27.	27.	27.	0.	0.	**	**	**	**
00932 SODIUM, PERCENT	10/10/51-10/10/51	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00933 SODIUM,PLUS POTASSIUM (MG/L)	10/10/51-10/10/51	1	5.8	5.8	5.8	5.8	0.	0.	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	10/10/51-12/13/52	3	6.	7.333	10.	6.	5.333	2.309	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	10/10/51-10/10/51	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	10/10/51-10/10/51	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SiO2)	10/10/51-10/10/51	1	15.	15.	15.	15.	0.	0.	**	**	**	**
01020 BORON, DISSOLVED (UG/L AS B)	02/16/52-02/16/52	1	100.	100.	100.	100.	0.	0.	**	**	**	**
70301 SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/10/51-10/10/51	1	307.	307.	307.	307.	0.	0.	**	**	**	**
70303 SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/10/51-10/10/51	1	0.42	0.42	0.42	0.42	0.	0.	**	**	**	**
71850 NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/10/51-10/10/51	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0112

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
00300 OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400 PH	Fresh Chronic	9.	1	0	0.00										1	0	0.00
	Other-Lo Lim.	6.5	1	0	0.00										1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: TUZI0112

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00613 NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00										1	0	0.00
00631 NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00										1	0	0.00
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	3	0	0.00												
	Drinking Water	250.	3	0	0.00	2	0	0.00	1	0	0.00						
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00									
00950 FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00	1	0	0.00									
71850 NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0113

NPS Station ID: TUZI0113

Location: SYCAMORE CR. (WILDERNESS) AZ/NM MOUNTAINS

Station Type: /TYPA/AMBNT/STREAM

RMI-Indexes:

RMI-Miles:

HUC: 15060202

Major Basin:

Minor Basin:

RF1 Index: 15060202

RF3 Index: 15060202002505.59

Description:

LAT/LON: 34.882226/-112.065837

Depth of Water: 0

Elevation: 3625

RF1 Mile Point: 0.000

RF3 Mile Point: 6.29

Agency: 21AZRWTR

FIPS State/County: 04025 ARIZONA/YAVAPAI

STORET Station ID(s): SYW1-00RF

Within Park Boundary: No

Aquifer:

Water Body Id:

ECO Region:

Distance from RF1: 0.00

Distance from RF3: 0.01

Date Created: 08/27/94

On/Off RF1:

On/Off RF3:

Parameter Inventory for Station: TUZI0113

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
***** No Parameter Data Available for this Station *****												

Station Inventory for Station: TUZI0114

NPS Station ID: TUZI0114
 Location: A-17-03 05C UNSURV
 Station Type: /TYPA/AMBNT/SPRING
 RMI-Indexes:
 RMI-Miles:
 HUC: 15060202
 Major Basin:
 Minor Basin:
 RF1 Index: 15060202
 RF3 Index: 15060202056000.00
 Description:

LAT/LON: 34.883337/-112.072782

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.00

Agency: 112WRD
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): 345300112042201
 Within Park Boundary: No

Date Created: 05/17/80

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 4.20
 Distance from RF3: 0.03

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: TUZI0114

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/10/51-10/10/51	1	19.	19.	19.	19.	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/10/51-10/10/51	1	569.	569.	569.	569.	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	10/10/51-10/10/51	1	306.	306.	306.	306.	0.	0.	**	**	**	**
00440 BICARBONATE ION (MG/L AS HCO3)	10/10/51-10/10/51	1	373.	373.	373.	373.	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	10/10/51-10/10/51	1	318.	318.	318.	318.	0.	0.	**	**	**	**
00902 HARDNESS, NON-CARBONATE (MG/L AS CaCO3)	10/10/51-10/10/51	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	10/10/51-10/10/51	1	78.	78.	78.	78.	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	10/10/51-10/10/51	1	30.	30.	30.	30.	0.	0.	**	**	**	**
00932 SODIUM, PERCENT	10/10/51-10/10/51	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00933 SODIUM,PLUS POTASSIUM (MG/L)	10/10/51-10/10/51	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	10/10/51-10/10/51	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	10/10/51-10/10/51	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	10/10/51-10/10/51	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SiO2)	10/10/51-10/10/51	1	15.	15.	15.	15.	0.	0.	**	**	**	**
70301 SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/10/51-10/10/51	1	318.	318.	318.	318.	0.	0.	**	**	**	**
70303 SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/10/51-10/10/51	1	0.43	0.43	0.43	0.43	0.	0.	**	**	**	**
71850 NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/10/51-10/10/51	1	1.9	1.9	1.9	1.9	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0114

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00
	Drinking Water	250.	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00
00950 FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00
71850 NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: TUZI0115

NPS Station ID: TUZI0115
 Location: A-17-02 03AAA
 Station Type: /TYPA/AMBNT/SPRING
 RMI-Indexes:
 RMI-Miles:
 HUC: 15060202
 Major Basin:
 Minor Basin:
 RF1 Index: 15060202
 RF3 Index: 15060202005800.77
 Description:

LAT/LON: 34.887782/-112.126115

Depth of Water: 0
 Elevation: 0

RF1 Mile Point: 0.000
 RF3 Mile Point: 0.77

Agency: 112WRD
 FIPS State/County: 04025 ARIZONA/YAVAPAI
 STORET Station ID(s): 345316112073401
 Within Park Boundary: No

Date Created: 10/31/81

Aquifer:
 Water Body Id:
 ECO Region:
 Distance from RF1: 1.20
 Distance from RF3: 0.00

On/Off RF1:
 On/Off RF3:

Parameter Inventory for Station: TUZI0115

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/08/77-06/08/77	1	18.5	18.5	18.5	18.5	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/08/77-06/08/77	1	350.	350.	350.	350.	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)	06/08/77-06/08/77	1	7.43	7.43	7.43	7.43	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	06/08/77-06/08/77	1	7.43	7.43	7.43	7.43	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/08/77-06/08/77	1	0.037	0.037	0.037	0.037	0.	0.	**	**	**	**
00405 CARBON DIOXIDE (MG/L AS CO2)	06/08/77-06/08/77	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	06/08/77-06/08/77	1	170.	170.	170.	170.	0.	0.	**	**	**	**
00440 BICARBONATE ION (MG/L AS HCO3)	06/08/77-06/08/77	1	210.	210.	210.	210.	0.	0.	**	**	**	**
00445 CARBONATE ION (MG/L AS CO3)	06/08/77-06/08/77	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00631 NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	06/08/77-06/08/77	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00660 PHOSPHATE, ORTHO (MG/L AS PO4)	06/08/77-06/08/77	1	0.09	0.09	0.09	0.09	0.	0.	**	**	**	**
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/08/77-06/08/77	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CaCO3)	06/08/77-06/08/77	1	170.	170.	170.	170.	0.	0.	**	**	**	**
00902 HARDNESS, NON-CARBONATE (MG/L AS CaCO3)	06/08/77-06/08/77	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS Ca)	06/08/77-06/08/77	1	40.	40.	40.	40.	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS Mg)	06/08/77-06/08/77	1	17.	17.	17.	17.	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS Na)	06/08/77-06/08/77	1	5.9	5.9	5.9	5.9	0.	0.	**	**	**	**
00931 SODIUM ADSORPTION RATIO	06/08/77-06/08/77	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00932 SODIUM, PERCENT	06/08/77-06/08/77	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	06/08/77-06/08/77	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
00940 CHLORIDE, TOTAL IN WATER MG/L	06/08/77-06/08/77	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	06/08/77-06/08/77	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	06/08/77-06/08/77	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SiO2)	06/08/77-06/08/77	1	16.	16.	16.	16.	0.	0.	**	**	**	**
01020 BORON, DISSOLVED (UG/L AS B)	06/08/77-06/08/77	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01046 IRON, DISSOLVED (UG/L AS Fe)	06/08/77-06/08/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01056 MANGANESE, DISSOLVED (UG/L AS Mn)	06/08/77-06/08/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
70301 SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/08/77-06/08/77	1	191.	191.	191.	191.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: TUZI0115

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
							Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00							1	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00							1	0	0.00			
		Drinking Water	250.	1	0	0.00							1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00							1	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00							1	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Entire TUZI Study Area

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----			
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	57	5	0.09	16	2	0.13	10	0	0.00	4	0	0.00	27	3	0.11
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	215	34	0.16	61	6	0.10	49	8	0.16	32	3	0.09	73	17	0.23
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	371	5	0.01	105	1	0.01	83	0	0.00	54	1	0.02	129	3	0.02
00400	PH	Fresh Chronic	9.	328	0	0.00	91	0	0.00	86	0	0.00	51	0	0.00	100	0	0.00
00403	PH, LAB	Other-Lo Lim.	6.5	328	14	0.04	91	5	0.05	86	3	0.03	51	2	0.04	100	4	0.04
		Fresh Chronic	9.	273	0	0.00	78	0	0.00	71	0	0.00	38	0	0.00	86	0	0.00
		Other-Lo Lim.	6.5	273	8	0.03	78	1	0.01	71	5	0.07	38	2	0.05	86	0	0.00
00406	PH, FIELD	Fresh Chronic	9.	57	0	0.00	18	0	0.00	12	0	0.00	11	0	0.00	16	0	0.00
		Other-Lo Lim.	6.5	57	0	0.00	18	0	0.00	12	0	0.00	11	0	0.00	16	0	0.00
		Drinking Water	1.	6	0	0.00	1	0	0.00	1	0	0.00	0	0	0.00	4	0	0.00
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	100	0	0.00	22	0	0.00	36	0	0.00	12	0	0.00	30	0	0.00
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	8	0	0.00	5	0	0.00	2	0	0.00	0	0	0.00	1	0	0.00
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	2	0	0.00	0	0	0.00	1	0	0.00	0	0	0.00	1	0	0.00
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	281	1	0.00	94	0	0.00	51	0	0.00	44	0	0.00	92	1	0.01
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	66	0	0.00	17	0	0.00	18	0	0.00	12	0	0.00	19	0	0.00
00720	CYANIDE, TOTAL	Fresh Acute	0.022	45	0	0.00	15	0	0.00	11	0	0.00	7	0	0.00	12	0	0.00
		Drinking Water	0.2	45	0	0.00	15	0	0.00	11	0	0.00	7	0	0.00	12	0	0.00
		Fresh Acute	860.	360	0	0.00	127	0	0.00	88	0	0.00	46	0	0.00	99	0	0.00
00940	CHLORIDE, TOTAL IN WATER	Drinking Water	250.	360	0	0.00	127	0	0.00	88	0	0.00	46	0	0.00	99	0	0.00
		Drinking Water	250.	416	56	0.13	130	20	0.15	90	12	0.13	58	9	0.16	138	15	0.11
		Drinking Water	250.	6	0	0.00	71	0	0.00	48	0	0.00	29	0	0.00	55	0	0.00
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	4.	203	0	0.00	71	0	0.00	48	0	0.00	29	0	0.00	55	0	0.00
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	79	1	0.01	20	0	0.00	28	1	0.04	8	0	0.00	23	0	0.00
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	79	1	0.01	20	0	0.00	28	1	0.04	8	0	0.00	23	0	0.00
00997	ARSENIC, INORGANIC TOT	Fresh Acute	360.	20	0	0.00	11	0	0.00	2	0	0.00	0	0	0.00	7	0	0.00
		Drinking Water	50.	20	0	0.00	11	0	0.00	2	0	0.00	0	0	0.00	7	0	0.00
		Fresh Acute	360.	169	0	0.00	51	0	0.00	39	0	0.00	24	0	0.00	55	0	0.00
01000	ARSENIC, DISSOLVED	Drinking Water	50.	168 &	3	0.02	51	0	0.00	39	0	0.00	24	0	0.00	54	3	0.06
		Fresh Acute	360.	268	0	0.00	67	0	0.00	74	0	0.00	44	0	0.00	83	0	0.00
		Drinking Water	50.	268	4	0.01	67	0	0.00	74	0	0.00	44	0	0.00	83	4	0.05
01005	BARIUM, DISSOLVED	Drinking Water	2000.	116	0	0.00	36	0	0.00	26	0	0.00	16	0	0.00	38	0	0.00
01007	BARIUM, TOTAL	Drinking Water	2000.	88	0	0.00	31	0	0.00	19	0	0.00	14	0	0.00	24	0	0.00
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	19	0	0.00	7	0	0.00	4	0	0.00	1	0	0.00	7	0	0.00
		Drinking Water	4.	15 &	0	0.00	5	0	0.00	3	0	0.00	1	0	0.00	6	0	0.00
		Fresh Acute	130.	92	0	0.00	30	0	0.00	16	0	0.00	11	0	0.00	35	0	0.00
01012	BERYLLIUM, TOTAL	Drinking Water	4.	59 &	0	0.00	18	0	0.00	7	0	0.00	7	0	0.00	27	0	0.00
		Fresh Acute	3.9	136 &	12	0.09	38	3	0.08	36	2	0.06	22	3	0.14	40	4	0.10
		Drinking Water	5.	136 &	12	0.09	38	3	0.08	36	2	0.06	22	3	0.14	40	4	0.10
01026	CADMIUM, SUSPENDED	Fresh Acute	3.9	3 &	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00
		Drinking Water	5.	4	0	0.00	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00	
		Fresh Acute	3.9	259 &	23	0.09	67	6	0.09	71	6	0.08	40	6	0.15	81	5	0.06
01027	CADMIUM, TOTAL	Drinking Water	5.	259 &	22	0.08	67	5	0.07	71	6	0.08	40	6	0.15	81	5	0.06
		Fresh Acute	100.	164	0	0.00	53	0	0.00	30	0	0.00	28	0	0.00	53	0	0.00
		Drinking Water	100.	37	0	0.00	5	0	0.00	8	0	0.00	4	0	0.00	20	0	0.00
01034	CHROMIUM, TOTAL	Drinking Water	100.	292	0	0.00	85	0	0.00	75	0	0.00	44	0	0.00	88	0	0.00
		Fresh Acute	18.	131 &	14	0.11	39	3	0.08	32	5	0.16	18	2	0.11	42	4	0.10
		Drinking Water	1300.	163	10	0.06	48	3	0.06	36	1	0.03	24	2	0.08	55	4	0.07
01042	COPPER, TOTAL	Fresh Acute	18.	264 &	63	0.24	73	14	0.19	66	23	0.35	41	10	0.24	84	16	0.19
		Drinking Water	1300.	331	18	0.05	96	4	0.04	80	6	0.08	48	4	0.08	107	4	0.04
		Fresh Acute	82.	190	1	0.01	57	0	0.00	44	0	0.00	30	0	0.00	59	1	0.02
01050	LEAD, SUSPENDED	Drinking Water	15.	188 &	12	0.06	56	3	0.05	43	1	0.02	30	3	0.10	59	5	0.08
		Fresh Acute	82.	1	0	0.00	0	0.00	0	0	0.00	1	0	0.00	0	0	0.00	
		Drinking Water	15.	1	0	0.00	0	0.00	0	0	0.00	1	0	0.00	0	0	0.00	
01051	LEAD, TOTAL	Fresh Acute	82.	248 &	3	0.01	70	1	0.01	70	1	0.01	41	1	0.02	67	0	0.00
		Drinking Water	15.	224 &	21	0.09	58	5	0.09	66	5	0.08	41	4	0.10	59	7	0.12
		Fresh Acute	1400.	12	0	0.00	5	0	0.00	1	0	0.00	1	0	0.00	5	0	0.00
01057	THALLIUM, DISSOLVED	Drinking Water	2.	0 &	0	0.00	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	
		Fresh Acute	1400.	67	0	0.00	22	0	0.00	9	0	0.00	8	0	0.00	28	0	0.00
		Drinking Water	2.	16 &	0	0.00	0	0.00	0	0	0.00	0	0	0.00	16	0	0.00	
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	17	0	0.00	7	0	0.00	2	0	0.00	1	0	0.00	7	0	0.00
		Drinking Water	100.	17	1	0.06	7	0	0.00	2	0	0.00	1	0	0.00	7	1	0.14

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Entire TUZI Study Area

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----		
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
01067 NICKEL, TOTAL	Fresh Acute	1400.	92	0	0.00	30	0	0.00	16	0	0.00	11	0	0.00	35	0	0.00
	Drinking Water	100.	92	2	0.02	30	2	0.07	16	0	0.00	11	0	0.00	35	0	0.00
01075 SILVER, DISSOLVED	Fresh Acute	4.1	105 &	2	0.02	35	1	0.03	24	0	0.00	16	0	0.00	30	1	0.03
	Drinking Water	100.	112	0	0.00	36	0	0.00	24	0	0.00	20	0	0.00	32	0	0.00
01077 SILVER, TOTAL	Fresh Acute	4.1	91 &	2	0.02	25	0	0.00	15	1	0.07	11	0	0.00	40	1	0.03
	Drinking Water	100.	151	0	0.00	43	0	0.00	36	0	0.00	15	0	0.00	57	0	0.00
01090 ZINC, DISSOLVED	Fresh Acute	120.	183	40	0.22	53	13	0.25	42	10	0.24	28	7	0.25	60	10	0.17
	Drinking Water	5000.	183	11	0.06	53	3	0.06	42	2	0.05	28	2	0.07	60	4	0.07
01092 ZINC, TOTAL	Fresh Acute	120.	290	73	0.25	81	17	0.21	74	25	0.34	44	12	0.27	91	19	0.21
	Drinking Water	5000.	290	22	0.08	81	6	0.07	74	6	0.08	44	5	0.11	91	5	0.05
01095 ANTIMONY, DISSOLVED	Fresh Acute	88.	17	0	0.00	7	0	0.00	2	0	0.00	1	0	0.00	7	0	0.00
	Drinking Water	6.	17	0	0.00	7	0	0.00	2	0	0.00	1	0	0.00	7	0	0.00
01097 ANTIMONY, TOTAL	Fresh Acute	88.	84 &	0	0.00	29	0	0.00	16	0	0.00	11	0	0.00	28	0	0.00
	Drinking Water	6.	76 &	2	0.03	28	1	0.04	16	0	0.00	11	0	0.00	21	1	0.05
01145 SELENIUM, DISSOLVED	Fresh Acute	20.	126 &	0	0.00	36	0	0.00	35	0	0.00	20	0	0.00	35	0	0.00
	Drinking Water	50.	127	0	0.00	36	0	0.00	36	0	0.00	20	0	0.00	35	0	0.00
01147 SELENIUM, TOTAL	Fresh Acute	20.	302	1	0.00	81	0	0.00	82	1	0.01	47	0	0.00	92	0	0.00
	Drinking Water	50.	302	0	0.00	81	0	0.00	82	0	0.00	47	0	0.00	92	0	0.00
07000 TRITIUM, TOTAL	Drinking Water	20000.	1	0	0.00										1	0	0.00
22703 URANIUM, NATURAL DISSOLVED	Drinking Water	20.	4	0	0.00				1	0	0.00				3	0	0.00
31501 COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	1	0	0.00										1	0	0.00
31613 FECAL COLIFORM, MEMBRANE FILTER, AGAR	Other-Hi Lim.	200.	102	12	0.12	30	3	0.10	9	0	0.00	25	0	0.00	38	9	0.24
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	28	4	0.14	8	0	0.00	7	1	0.14	2	0	0.00	11	3	0.27
31625 FECAL COLIFORM, MF	Other-Hi Lim.	200.	161	8	0.05	49	2	0.04	42	0	0.00	27	0	0.00	43	6	0.14
34205 ACENAPHTHENE, TOTAL	Fresh Acute	1700.	2	0	0.00										2	0	0.00
34356 ENDOSULFAN, BETA, TOTAL	Fresh Acute	0.22	1	0	0.00										1	0	0.00
34361 ENDOSULFAN, ALPHA, TOTAL	Fresh Acute	0.22	1 &	0	0.00										1	0	0.00
34376 FLUORANTHENE, TOTAL	Fresh Acute	3980.	2	0	0.00										2	0	0.00
34386 HEXACHLOROCYCLOPENTADIENE, TOTAL	Fresh Acute	7.	2	0	0.00										2	0	0.00
	Drinking Water	50.	2	0	0.00										2	0	0.00
34391 HEXACHLOROBUTADIENE, TOTAL	Fresh Acute	90.	2	0	0.00										2	0	0.00
34396 HEXACHLOROETHANE, TOTAL	Fresh Acute	980.	2	0	0.00										2	0	0.00
34403 IDENO (1,2,3-CD) PYRENE	Drinking Water	0.4	0 &	0	0.00												
34408 ISOPHORONE, TOTAL	Fresh Acute	117000.	2	0	0.00										2	0	0.00
34447 NITROBENZENE, TOTAL	Fresh Acute	27000.	2	0	0.00										2	0	0.00
34461 PHENANTHRENE, TOTAL	Fresh Acute	30.	2	0	0.00										2	0	0.00
34536 1,2-DICHLOROBENZENE, TOTAL	Drinking Water	600.	2	0	0.00										2	0	0.00
34551 1,2,4-TRICHLOROBENZENE, TOTAL	Drinking Water	70.	2	0	0.00										2	0	0.00
34566 1,3-DICHLOROBENZENE, TOTAL	Drinking Water	600.	2	0	0.00										2	0	0.00
34571 1,4-DICHLOROBENZENE, TOTAL	Drinking Water	75.	2	0	0.00										2	0	0.00
34586 2-CHLOROPHENOL, TOTAL	Fresh Acute	4380.	2	0	0.00										2	0	0.00
34601 2,4-DICHLOROPHENOL, TOTAL	Fresh Acute	2020.	2	0	0.00										2	0	0.00
34606 2,4-DIMETHYLPHENOL, TOTAL	Fresh Acute	2120.	2	0	0.00										2	0	0.00
34611 2,4-DINITROTOLUENE, TOTAL	Fresh Acute	330.	2	0	0.00										2	0	0.00
34694 PHENOL (C6HSOH) - SINGLE COMPOUND, TOTAL	Fresh Acute	10200.	2	0	0.00										2	0	0.00
39032 PCP (PENTACHLOROPHENOL) WHOLE WATER SAMP	Fresh Acute	20.	1 &	0	0.00										1	0	0.00
	Drinking Water	1.	0 &	0	0.00												
39100 BIS(2-ETHYLHEXYL) PHTHALATE, WHOLE WATER	Fresh Acute	2000.	2	0	0.00										2	0	0.00
	Drinking Water	6.	2	0	0.00										2	0	0.00
39300 P,P' DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	1	0	0.00										1	0	0.00
39310 P,P' DDD IN WHOLE WATER SAMPLE	Fresh Acute	0.6	1	0	0.00										1	0	0.00
39320 P,P' DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	1	0	0.00										1	0	0.00
39330 ALDRIN IN WHOLE WATER SAMPLE	Fresh Acute	3.	1	0	0.00										1	0	0.00
39340 GAMMA-BHC(LINDANE), WHOLE WATER	Fresh Acute	2.	1	0	0.00										1	0	0.00
	Drinking Water	0.2	1	0	0.00										1	0	0.00
39380 DIELDRIN IN WHOLE WATER SAMPLE	Fresh Acute	2.5	1	0	0.00										1	0	0.00
39390 ENDRIN IN WHOLE WATER SAMPLE	Fresh Acute	0.18	1	0	0.00										1	0	0.00
	Drinking Water	2.	1	0	0.00										1	0	0.00
39400 TOXAPHENE IN WHOLE WATER SAMPLE	Fresh Acute	0.73	1	0	0.00										1	0	0.00
	Drinking Water	3.	1	0	0.00										1	0	0.00
39410 HEPTACHLOR IN WHOLE WATER SAMPLE	Fresh Acute	0.52	1	0	0.00										1	0	0.00
	Drinking Water	0.4	1	0	0.00										1	0	0.00

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Entire TUZI Study Area

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	-----10/10-2/09-----			-----2/10-4/30-----			-----5/01-6/30-----			-----7/01-10/09-----			
						Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Fresh Acute	0.52	1	0	0.00									1	0	0.00	
		Drinking Water	0.2	1	0	0.00									1	0	0.00	
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE	Drinking Water	40.	1	0	0.00									1	0	0.00	
39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE	Fresh Acute	6.	2	0	0.00									2	0	0.00	
		Drinking Water	1.	0 &	0	0.00												
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	107	0	0.00	28	0	0.00	35	0	0.00	9	0	0.00	35	0	0.00
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	9	0	0.00	5	0	0.00	2	0	0.00				2	0	0.00
71856	NITRITE NITROGEN, DISSOLVED (AS NO2)	Drinking Water	3.3	2	0	0.00	1	0	0.00	1	0	0.00						
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	35 &	1	0.03	7	0	0.00	13	0	0.00	4	0	0.00	11	1	0.09
		Drinking Water	2.	35 &	1	0.03	7	0	0.00	13	0	0.00	4	0	0.00	11	1	0.09
71900	MERCURY, TOTAL	Fresh Acute	2.4	309 &	0	0.00	86	0	0.00	72	0	0.00	45	0	0.00	106	0	0.00
		Drinking Water	2.	309 &	0	0.00	86	0	0.00	72	0	0.00	45	0	0.00	106	0	0.00
77687	2,4,5-TRICHLOROPHENOL, WHOLE WATER	Fresh Acute	100.	2	0	0.00									2	0	0.00	
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	6	0	0.00	3	0	0.00				1	0	0.00	2	0	0.00
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	96	10	0.10	23	0	0.00	37	5	0.14	19	2	0.11	17	3	0.18

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

NPS Servicewide Inventory and Monitoring Program Level I
Water Quality Parameter Inventory Data Evaluation and Analysis:
Missing Level I Groups

No STORET Data Within the TUZI Study Area Exist for These Groups:

Chlorophyll*

*Not A Priority Parameter

NPS Servicewide Inventory and Monitoring Program Level I

Water Quality Parameter Inventory Data Evaluation and Analysis:

Present Level I Groups

STORET Data Within the TUZI Study Area Exist for These Groups:

Alkalinity		Total Obs.	01/01/85 to 07/23/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00410	ALKALINITY, TOTAL (MG/L AS CaCO ₃)	289	100	132	57	57
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	96	45	51	0	22
00440	BICARBONATE ION (MG/L AS HCO ₃)	143	66	54	23	30
00445	CARBONATE ION (MG/L AS CO ₃)	132	65	50	17	27
		660	276	287	97	136 (57) ¹
pH		Total Obs.	01/01/85 to 07/23/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00400	PH (STANDARD UNITS)	328	109	205	14	41
00403	PH, LAB (STANDARD UNITS)	273	155	84	34	36
00406	PH, FIELD (STANDARD UNITS)	57	57	0	0	9
		658	321	289	48	86 (58) ¹
Conductivity		Total Obs.	01/01/85 to 07/23/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	161	61	92	8	22
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	356	155	144	57	59
		517	216	236	65	81 (61) ¹
Dissolved Oxygen		Total Obs.	01/01/85 to 07/23/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00300	OXYGEN, DISSOLVED (MG/L)	371	159	188	24	35
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	85	75	10	0	9
		456	234	198	24	44 (35) ¹
Water Temperature		Total Obs.	01/01/85 to 07/23/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	451	171	220	60	62
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	1	0	1	0	1
		452	171	221	60	63 (62) ¹
Flow		Total Obs.	01/01/85 to 07/23/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00059	FLOW RATE, INSTANTANEOUS, GALLONS/MINUTE	3	1	0	2	3
00061	FLOW, STREAM, INSTANTANEOUS CFS	272	121	136	15	27
00065	STAGE, STREAM (FEET)	121	108	13	0	3
		396	230	149	17	33 (29) ¹

¹Since a station can have data for more than one of the parameters in the parameter group, the number in the parenthesis is the number of unique stations having data for this parameter group.

Clarity/Turbidity		Total Obs.	01/01/85 to 07/23/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00070	TURBIDITY, (JACKSON CANDLE UNITS)	57	0	36	21	11
00076	TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT)	215	100	114	1	13
00078	TRANSPARENCY, SECCHI DISC (METERS)	1	0	1	0	1
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	212	162	49	1	22
82078	TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS NTU	6	6	0	0	1
82079	TURBIDITY, LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	96	63	33	0	18
		587	331	233	23	66 (28) ¹
Nitrate/Nitrogen		Total Obs.	01/01/85 to 07/23/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00600	NITROGEN, TOTAL (MG/L AS N)	131	0	131	0	11
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	1	0	1	0	1
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	4	4	0	0	4
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	137	131	6	0	11
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	8	0	2	6	5
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	2	0	2	0	1
00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	359	145	193	21	28
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	281	135	146	0	19
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	66	4	62	0	14
71850	NITRATE NITROGEN, TOTAL (MG/L AS NO3)	107	0	59	48	29
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	9	0	3	6	6
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	2	0	2	0	1
		1107	419	607	81	130 (52) ¹
Phosphate/Phosphorus		Total Obs.	01/01/85 to 07/23/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	120	0	95	25	22
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	57	0	57	0	10
00665	PHOSPHORUS, TOTAL (MG/L AS P)	252	143	109	0	19
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	5	0	5	0	5
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	64	4	60	0	12
70507	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	33	32	1	0	1
		531	179	327	25	69 (46) ¹
Sulfates/Total Dissolved Solids/Hardness		Total Obs.	01/01/85 to 07/23/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00900	HARDNESS, TOTAL (MG/L AS CaCO3)	235	46	138	51	54
00945	SULFATE, TOTAL (MG/L AS SO4)	416	150	215	51	54
00946	SULFATE, DISSOLVED (MG/L AS SO4)	6	0	6	0	6
70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), (MG/L)	237	162	70	5	17
		894	358	429	107	131 (63) ¹
Bacteria		Total Obs.	01/01/85 to 07/23/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
31501	COLIFORM, TOT, MEMBRANE FILTER, IMMED. M-ENDOMED, 35C	1	0	1	0	1
31613	FECAL COLIFORM, MEMBR. FILTER, M-FC AGAR, 44.5C, 24HR	102	9	93	0	11
31616	FECAL COLIFORM, MEMBR. FILTER, M-FC BROTH, 44.5C	28	0	12	16	12
31625	FECAL COLIFORM, MF, M-FC, 0.7 UM	161	95	66	0	2
31673	FECAL STREPTOCOCCI, MBR. FILT., KF AGAR, 35C, 48HR	201	102	99	0	13
		493	206	271	16	39 (19) ¹

¹Since a station can have data for more than one of the parameters in the parameter group, the number in the parenthesis is the number of unique stations having data for this parameter group.

Toxic Elements		Total Obs.	01/01/85 to 07/23/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	17	17	0	0	2
01097	ANTIMONY, TOTAL (UG/L AS SB)	85	85	0	0	16
00997	ARSENIC, INORGANIC TOTAL (UG/L AS AS)	20	0	3	17	11
01000	ARSENIC, DISSOLVED (UG/L AS AS)	169	110	59	0	24
01002	ARSENIC, TOTAL (UG/L AS AS)	268	162	101	5	42
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	19	17	2	0	4
01012	BERYLLIUM, TOTAL (UG/L AS BE)	92	92	0	0	22
01025	CADMIUM, DISSOLVED (UG/L AS CD)	162	107	55	0	18
01026	CADMIUM, SUSPENDED (UG/L AS CD)	4	1	3	0	3
01027	CADMIUM, TOTAL (UG/L AS CD)	343	161	161	21	45
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	164	107	57	0	6
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	37	3	34	0	10
01034	CHROMIUM, TOTAL (UG/L AS CR)	298	160	117	21	44
01040	COPPER, DISSOLVED (UG/L AS CU)	163	109	54	0	21
01042	COPPER, TOTAL (UG/L AS CU)	336	160	150	26	45
01049	LEAD, DISSOLVED (UG/L AS PB)	190	110	80	0	17
01050	LEAD, SUSPENDED (UG/L AS PB)	1	0	1	0	1
01051	LEAD, TOTAL (UG/L AS PB)	276	156	99	21	42
71890	MERCURY, DISSOLVED (UG/L AS HG)	37	22	15	0	16
71900	MERCURY, TOTAL (UG/L AS HG)	313	159	133	21	47
01065	NICKEL, DISSOLVED (UG/L AS NI)	17	17	0	0	2
01067	NICKEL, TOTAL (UG/L AS NI)	93	93	0	0	22
01145	SELENIUM, DISSOLVED (UG/L AS SE)	127	110	17	0	16
01147	SELENIUM, TOTAL (UG/L AS SE)	309	156	149	4	34
01075	SILVER, DISSOLVED (UG/L AS AG)	112	107	5	0	6
01077	SILVER, TOTAL (UG/L AS AG)	154	62	71	21	44
01057	THALLIUM, DISSOLVED (UG/L AS TL)	12	12	0	0	1
01059	THALLIUM, TOTAL (UG/L AS TL)	67	67	0	0	22
01090	ZINC, DISSOLVED (UG/L AS ZN)	183	110	73	0	21
01092	ZINC, TOTAL (UG/L AS ZN)	306	161	130	15	42
00720	CYANIDE, TOTAL (MG/L AS CN)	45	0	42	3	5
34420	METHYL CHLORIDE, SUSPENDED (UG/L)	2	2	0	0	2
34586	2-CHLOROPHENOL, TOTAL (UG/L)	2	2	0	0	2
34601	2,4-DICHLOROPHENOL, TOTAL (UG/L)	2	2	0	0	2
34606	2,4-DIMETHYLPHENOL, TOTAL (UG/L)	2	2	0	0	2
34657	DNOC (4,6-DINITRO-ORTHO-CRESOL), TOTAL (UG/L)	2	2	0	0	2
34616	2,4-DINITROPHENOL, TOTAL (UG/L)	2	2	0	0	2
34591	2-NITROPHENOL, TOTAL (UG/L)	2	2	0	0	2
34646	4-NITROPHENOL, TOTAL (UG/L)	2	2	0	0	2
39032	PCP (PENTACHLOROPHENOL) WHOLE WATER SAMPLE (UG/L)	2	2	0	0	2
34694	PHENOL(C6H5OH)-SINGLE COMPOUND TOTAL (UG/L)	2	2	0	0	2
34621	2,4,6-TRICHLOROPHENOL, TOTAL (UG/L)	2	2	0	0	2
34205	ACENAPHTHENE, TOTAL (UG/L)	2	2	0	0	2
34200	ACENAPHTHYLENE, TOTAL (UG/L)	2	2	0	0	2
34526	BENZO(A)ANTHRACENE1,2-BENZANTHRACENE, TOTAL (UG/L)	2	2	0	0	2
34247	BENZO-A-PYRENE, TOTAL (UG/L)	2	2	0	0	2
34230	BENZO(B)FLUORANTHENE, WHOLE WATER (UG/L)	2	2	0	0	2
34521	BENZO(GHI)PERYLENE1,12-BENZOPERYLENE, TOTAL (UG/L)	2	2	0	0	2
34242	BENZO(K)FLUORANTHENE, TOTAL (UG/L)	2	2	0	0	2
34278	BIS (2-CHLOROETHOXY) METHANE, TOTAL (UG/L)	2	2	0	0	2
34273	BIS (2-CHLOROETHYL) ETHER, TOTAL (UG/L)	2	2	0	0	2
39100	BIS(2-ETHYLHEXYL) PHTHALATE, WHOLE WATER (UG/L)	2	2	0	0	2
34636	4-BROMOPHENYL PHENYL ETHER, TOTAL (UG/L)	2	2	0	0	2
34292	N-BUTYL BENZYL PHTHALATE, WHOLE WATER (UG/L)	2	2	0	0	2
34293	N-BUTYL BENZYL PHTHALATE, DISSOLVED (UG/L)	2	2	0	0	2

¹Since a station can have data for more than one of the parameters in the parameter group, the number in the parenthesis is the number of unique stations having data for this parameter group.

Toxic Elements - Continued ...		Total Obs.	01/01/85 to 07/23/96	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
34581	2-CHLORONAPHTHALENE, TOTAL (UG/L)	2	2	0	0	2
34641	4-CHLOROPHENYL PHENYL ETHER, TOTAL (UG/L)	2	2	0	0	2
34320	CHRYSENE, TOTAL (UG/L)	2	2	0	0	2
34556	1,2,5,6-DIBENZANTHRACENE, TOTAL (UG/L)	2	2	0	0	2
34536	1,2-DICHLOROBENZENE, TOTAL (UG/L)	2	2	0	0	2
34566	1,3-DICHLOROBENZENE, TOTAL (UG/L)	2	2	0	0	2
34571	1,4-DICHLOROBENZENE, TOTAL (UG/L)	2	2	0	0	2
34631	3,3'-DICHLOROBENZIDINE, TOTAL (UG/L)	2	2	0	0	2
34336	DIETHYL PHTHALATE, TOTAL (UG/L)	2	2	0	0	2
34341	DIMETHYL PHTHALATE, TOTAL (UG/L)	2	2	0	0	2
39110	DI-N-BUTYL PHTHALATE, WHOLE WATER (UG/L)	2	2	0	0	2
34611	2,4-DINITROTOLUENE, TOTAL (UG/L)	2	2	0	0	2
34626	2,6-DINITROTOLUENE, TOTAL (UG/L)	2	2	0	0	2
34596	DI-N-OCTYL PHTHALATE, TOTAL (UG/L)	2	2	0	0	2
34376	FLUORANTHENE, TOTAL (UG/L)	2	2	0	0	2
39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE (UG/L)	2	2	0	0	2
34391	HEXACHLOROBTADIENE, TOTAL (UG/L)	2	2	0	0	2
34386	HEXACHLOROCYCLOPENTADIENE, TOTAL (UG/L)	2	2	0	0	2
34396	HEXACHLOROETHANE, TOTAL (UG/L)	2	2	0	0	2
34403	INDENO (1,2,3-CD) PYRENE, TOTAL (UG/L)	2	2	0	0	2
34408	ISOPHORONE, TOTAL (UG/L)	2	2	0	0	2
34447	NITROBENZENE, TOTAL (UG/L)	2	2	0	0	2
34428	N-NITROSODI-N-PROPYLAMINE, TOTAL (UG/L)	2	2	0	0	2
34433	N-NITROSODIPHENYLAMINE, TOTAL (UG/L)	2	2	0	0	2
34461	PHENANTHRENE, TOTAL (UG/L)	2	2	0	0	2
34469	PYRENE, TOTAL (UG/L)	2	2	0	0	2
34551	1,2,4-TRICHLOROBENZENE, TOTAL (UG/L)	2	2	0	0	2
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	1	1	0	0	1
39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER (UG/L)	1	1	0	0	1
39338	BETA BENZENE HEXACHLORIDE IN WHOLE WATER (UG/L)	1	1	0	0	1
39340	GAMMA-BHC(LINDANE), WHOLE WATER (UG/L)	1	1	0	0	1
34259	DELTA BENZENE HEXACHLORIDE, TOTAL (UG/L)	1	1	0	0	1
39300	P,P' DDT IN WHOLE WATER SAMPLE (UG/L)	1	1	0	0	1
39320	P,P' DDE IN WHOLE WATER SAMPLE (UG/L)	1	1	0	0	1
39310	P,P' DDD IN WHOLE WATER SAMPLE (UG/L)	1	1	0	0	1
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	1	1	0	0	1
34361	ENDOSULFAN, ALPHA, TOTAL (UG/L)	3	3	0	0	2
34356	ENDOSULFAN, BETA, TOTAL (UG/L)	1	1	0	0	1
34351	ENDOSULFAN SULFATE, TOTAL (UG/L)	1	1	0	0	1
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	1	1	0	0	1
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	1	1	0	0	1
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	1	1	0	0	1
39496	PCB - 1242 PCB SERIES WHOLE WATER SAMPLE (UG/L)	1	1	0	0	1
39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE (UG/L)	1	1	0	0	1
39488	PCB - 1221 IN THE WHOLE WATER SAMPLE (UG/L)	1	1	0	0	1
39500	PCB - 1248 PCB SERIES WHOLE WATER SAMPLE (UG/L)	1	1	0	0	1
39508	PCB - 1260 PCB SERIES WHOLE WATER SAMPLE (UG/L)	1	1	0	0	1
34671	PCB - 1016, TOTAL (UG/L)	1	1	0	0	1
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	1	1	0	0	1
		4545	2759	1611	175	776 (62) ¹

¹Since a station can have data for more than one of the parameters in the parameter group, the number in the parenthesis is the number of unique stations having data for this parameter group.

NPS Servicewide Inventory and Monitoring Program Level I

Water Quality Parameter Inventory Data Evaluation and Analysis:

Park Summary: Level I Group Currentness and Distribution

Parameter Group	Total Obs.	Obs. Since 1985	% Obs. Since 1985	Stations Measuring This Group	% of Total Stations Measuring This Group	Obs. Per Station Measuring This Group	Period of Record For This Group	Observations Per Year of Period of Record
Alkalinity	660	276	41.8	57	51.4	11.6	10/10/51-08/01/94	15.4
pH	658	321	48.8	58	52.3	11.3	10/09/58-07/23/96	17.4
Conductivity	517	216	41.8	61	55.0	8.5	10/10/51-07/23/96	11.5
Dissolved Oxygen	456	234	51.3	35	31.5	13.0	01/30/73-07/23/96	19.4
Water Temperature	452	171	37.8	62	55.9	7.3	10/10/51-07/23/96	10.1
Flow	396	230	58.1	29	26.1	13.7	10/24/58-06/25/96	10.5
Clarity/Turbidity	587	331	56.4	28	25.2	21.0	02/07/73-07/23/96	25.0
Nitrate/Nitrogen	1107	419	37.9	52	46.8	21.3	10/10/51-07/23/96	24.7
Phosphate/Phosphorus	531	179	33.7	46	41.4	11.5	01/26/73-07/23/96	22.6
Chlorophyll	0	0	0.0	0	0.0	0.0	No Data For Group	0.0
Sulfates/Total Dissolved Solids/Hardness	894	358	40.0	63	56.8	14.2	10/10/51-07/23/96	20.0
Bacteria	493	206	41.8	19	17.1	25.9	01/29/73-11/21/95	21.6
Toxic Elements	4545	2759	60.7	62	55.9	73.3	01/26/73-07/23/96	193.5

Water Quality Observations Outside STORET Edit Criteria for TUZI

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter	Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
TUZI0027	00440 BICARBONATE ION (MG/L AS HCO3)	881206	1430	1120.0000000	11NPSWRD	TUZI_ADEQ_VRZ-4	
TUZI0027	00900 HARDNESS, TOTAL (MG/L AS CaCO3)	881206	1430	23000.0000000	11NPSWRD	TUZI_ADEQ_VRZ-4	
TUZI0027	00927 MAGNESIUM, TOTAL (MG/L AS MG)	881206	1430	5430.0000000	11NPSWRD	TUZI_ADEQ_VRZ-4	
TUZI0027	00945 SULFATE, TOTAL (MG/L AS SO4)	881206	1430	20500.0000000	11NPSWRD	TUZI_ADEQ_VRZ-4	
TUZI0027	70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	881206	1430	29600.0000000	11NPSWRD	TUZI_ADEQ_VRZ-4	
TUZI0029	00410 ALKALINITY, TOTAL (MG/L AS CaCO3)	881206	1420	1030.0000000	11NPSWRD	TUZI_ADEQ_VRZ-3	
TUZI0029	00440 BICARBONATE ION (MG/L AS HCO3)	881206	1420	1260.0000000	11NPSWRD	TUZI_ADEQ_VRZ-3	
TUZI0029	00900 HARDNESS, TOTAL (MG/L AS CaCO3)	881206	1420	27800.0000000	11NPSWRD	TUZI_ADEQ_VRZ-3	
TUZI0029	00927 MAGNESIUM, TOTAL (MG/L AS MG)	881206	1420	6470.0000000	11NPSWRD	TUZI_ADEQ_VRZ-3	
TUZI0029	00945 SULFATE, TOTAL (MG/L AS SO4)	881206	1420	25100.0000000	11NPSWRD	TUZI_ADEQ_VRZ-3	
TUZI0029	70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	881206	1420	34200.0000000	11NPSWRD	TUZI_ADEQ_VRZ-3	
TUZI0045	00900 HARDNESS, TOTAL (MG/L AS CaCO3)	730208	1220	5680.0000000	21ARIZ	702600250000200	
TUZI0045	00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	730208	1220	1135.0000000	21ARIZ	702600250000200	
TUZI0045	00945 SULFATE, TOTAL (MG/L AS SO4)	730208	1220	4700.0000000	21ARIZ	702600250000200	
TUZI0051	01042 COPPER, TOTAL (UG/L AS CU)	911119	1420	5390.0000000	21ARIZ	7026000000000095	
TUZI0065	00945 SULFATE, TOTAL (MG/L AS SO4)	790613	1530	4450.0000000	21ARIZ	7026000000000080	
TUZI0065	01042 COPPER, TOTAL (UG/L AS CU)	790613	1530	10000.0000000	21ARIZ	7026000000000080	
TUZI0065	01045 IRON, TOTAL (UG/L AS FE)	790613	1530	92000.0000000	21ARIZ	7026000000000080	
TUZI0065	01055 MANGANESE, TOTAL (UG/L AS MN)	790613	1530	14000.0000000	21ARIZ	7026000000000080	
TUZI0065	01092 ZINC, TOTAL (UG/L AS ZN)	790613	1530	168000.0000000	21ARIZ	7026000000000080	
TUZI0066	00945 SULFATE, TOTAL (MG/L AS SO4)	800212	0842	4550.0000000	21ARIZ	702600100000363	
TUZI0066	00945 SULFATE, TOTAL (MG/L AS SO4)	800415	1400	3800.0000000	21ARIZ	702600100000363	
TUZI0066	00945 SULFATE, TOTAL (MG/L AS SO4)	800520	0830	4550.0000000	21ARIZ	702600100000363	
TUZI0066	00945 SULFATE, TOTAL (MG/L AS SO4)	800617	0825	4300.0000000	21ARIZ	702600100000363	
TUZI0066	00945 SULFATE, TOTAL (MG/L AS SO4)	800714	0810	5100.0000000	21ARIZ	702600100000363	
TUZI0066	00945 SULFATE, TOTAL (MG/L AS SO4)	800805	0800	6200.0000000	21ARIZ	702600100000363	
TUZI0066	00945 SULFATE, TOTAL (MG/L AS SO4)	800826	0800	5850.0000000	21ARIZ	702600100000363	
TUZI0066	00945 SULFATE, TOTAL (MG/L AS SO4)	800923	0815	6500.0000000	21ARIZ	702600100000363	
TUZI0066	00945 SULFATE, TOTAL (MG/L AS SO4)	801013	0820	5330.0000000	21ARIZ	702600100000363	
TUZI0066	00945 SULFATE, TOTAL (MG/L AS SO4)	801111	0800	6560.0000000	21ARIZ	702600100000363	
TUZI0066	00945 SULFATE, TOTAL (MG/L AS SO4)	801209	0800	6500.0000000	21ARIZ	702600100000363	
TUZI0066	00945 SULFATE, TOTAL (MG/L AS SO4)	830429	1120	3224.0000000	21ARIZ	702600100000363	
TUZI0066	01025 CADMIUM, DISSOLVED (UG/L AS CD)	800714	0810	510.0000000	21ARIZ	702600100000363	
TUZI0066	01025 CADMIUM, DISSOLVED (UG/L AS CD)	800923	0815	650.0000000	21ARIZ	702600100000363	
TUZI0066	01025 CADMIUM, DISSOLVED (UG/L AS CD)	801013	0820	560.0000000	21ARIZ	702600100000363	
TUZI0066	01027 CADMIUM, TOTAL (UG/L AS CD)	800714	0810	510.0000000	21ARIZ	702600100000363	
TUZI0066	01027 CADMIUM, TOTAL (UG/L AS CD)	800923	0815	660.0000000	21ARIZ	702600100000363	
TUZI0066	01027 CADMIUM, TOTAL (UG/L AS CD)	801013	0820	580.0000000	21ARIZ	702600100000363	
TUZI0066	01040 COPPER, DISSOLVED (UG/L AS CU)	800415	1400	19500.0000000	21ARIZ	702600100000363	
TUZI0066	01040 COPPER, DISSOLVED (UG/L AS CU)	800520	0830	16000.0000000	21ARIZ	702600100000363	
TUZI0066	01040 COPPER, DISSOLVED (UG/L AS CU)	800617	0825	10000.0000000	21ARIZ	702600100000363	

Water Quality Observations Outside STORET Edit Criteria for TUZI

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter	Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
TUZI0066	01040 COPPER, DISSOLVED (UG/L AS CU)	800714	0810	8200.0000000	21ARIZ	702600100000363	
TUZI0066	01040 COPPER, DISSOLVED (UG/L AS CU)	800805	0800	9000.0000000	21ARIZ	702600100000363	
TUZI0066	01040 COPPER, DISSOLVED (UG/L AS CU)	800826	0800	7900.0000000	21ARIZ	702600100000363	
TUZI0066	01040 COPPER, DISSOLVED (UG/L AS CU)	800923	0815	8000.0000000	21ARIZ	702600100000363	
TUZI0066	01040 COPPER, DISSOLVED (UG/L AS CU)	801013	0820	7700.0000000	21ARIZ	702600100000363	
TUZI0066	01040 COPPER, DISSOLVED (UG/L AS CU)	801111	0800	7500.0000000	21ARIZ	702600100000363	
TUZI0066	01040 COPPER, DISSOLVED (UG/L AS CU)	801209	0800	6300.0000000	21ARIZ	702600100000363	
TUZI0066	01042 COPPER, TOTAL (UG/L AS CU)	800212	0842	30200.0000000	21ARIZ	702600100000363	
TUZI0066	01042 COPPER, TOTAL (UG/L AS CU)	800319	0917	32500.0000000	21ARIZ	702600100000363	
TUZI0066	01042 COPPER, TOTAL (UG/L AS CU)	800415	1400	25500.0000000	21ARIZ	702600100000363	
TUZI0066	01042 COPPER, TOTAL (UG/L AS CU)	800520	0830	16600.0000000	21ARIZ	702600100000363	
TUZI0066	01042 COPPER, TOTAL (UG/L AS CU)	800617	0825	10200.0000000	21ARIZ	702600100000363	
TUZI0066	01042 COPPER, TOTAL (UG/L AS CU)	800714	0810	8400.0000000	21ARIZ	702600100000363	
TUZI0066	01042 COPPER, TOTAL (UG/L AS CU)	800805	0800	9000.0000000	21ARIZ	702600100000363	
TUZI0066	01042 COPPER, TOTAL (UG/L AS CU)	800826	0800	7900.0000000	21ARIZ	702600100000363	
TUZI0066	01042 COPPER, TOTAL (UG/L AS CU)	800923	0815	8300.0000000	21ARIZ	702600100000363	
TUZI0066	01042 COPPER, TOTAL (UG/L AS CU)	801013	0820	7700.0000000	21ARIZ	702600100000363	
TUZI0066	01042 COPPER, TOTAL (UG/L AS CU)	801111	0800	7500.0000000	21ARIZ	702600100000363	
TUZI0066	01042 COPPER, TOTAL (UG/L AS CU)	801209	0800	6400.0000000	21ARIZ	702600100000363	
TUZI0066	01045 IRON, TOTAL (UG/L AS FE)	800212	0842	231000.0000000	21ARIZ	702600100000363	
TUZI0066	01045 IRON, TOTAL (UG/L AS FE)	800319	0917	196000.0000000	21ARIZ	702600100000363	
TUZI0066	01045 IRON, TOTAL (UG/L AS FE)	800415	1400	210000.0000000	21ARIZ	702600100000363	
TUZI0066	01045 IRON, TOTAL (UG/L AS FE)	800520	0830	240000.0000000	21ARIZ	702600100000363	
TUZI0066	01045 IRON, TOTAL (UG/L AS FE)	800617	0825	203000.0000000	21ARIZ	702600100000363	
TUZI0066	01046 IRON, DISSOLVED (UG/L AS FE)	800415	1400	210000.0000000	21ARIZ	702600100000363	
TUZI0066	01046 IRON, DISSOLVED (UG/L AS FE)	800520	0830	240000.0000000	21ARIZ	702600100000363	
TUZI0066	01046 IRON, DISSOLVED (UG/L AS FE)	800617	0825	200000.0000000	21ARIZ	702600100000363	
TUZI0066	01046 IRON, DISSOLVED (UG/L AS FE)	800714	0810	190000.0000000	21ARIZ	702600100000363	
TUZI0066	01046 IRON, DISSOLVED (UG/L AS FE)	800805	0800	223000.0000000	21ARIZ	702600100000363	
TUZI0066	01046 IRON, DISSOLVED (UG/L AS FE)	800826	0800	71000.0000000	21ARIZ	702600100000363	
TUZI0066	01046 IRON, DISSOLVED (UG/L AS FE)	801013	0820	172000.0000000	21ARIZ	702600100000363	
TUZI0066	01046 IRON, DISSOLVED (UG/L AS FE)	801111	0800	210000.0000000	21ARIZ	702600100000363	
TUZI0066	01046 IRON, DISSOLVED (UG/L AS FE)	801209	0800	400000.0000000	21ARIZ	702600100000363	
TUZI0066	01055 MANGANESE, TOTAL (UG/L AS MN)	800212	0842	13900.0000000	21ARIZ	702600100000363	
TUZI0066	01055 MANGANESE, TOTAL (UG/L AS MN)	800319	0917	11800.0000000	21ARIZ	702600100000363	
TUZI0066	01055 MANGANESE, TOTAL (UG/L AS MN)	800415	1400	15000.0000000	21ARIZ	702600100000363	
TUZI0066	01055 MANGANESE, TOTAL (UG/L AS MN)	800520	0830	18000.0000000	21ARIZ	702600100000363	
TUZI0066	01056 MANGANESE, DISSOLVED (UG/L AS MN)	800415	1400	15000.0000000	21ARIZ	702600100000363	
TUZI0066	01090 ZINC, DISSOLVED (UG/L AS ZN)	800415	1400	210000.0000000	21ARIZ	702600100000363	
TUZI0066	01090 ZINC, DISSOLVED (UG/L AS ZN)	800520	0830	276000.0000000	21ARIZ	702600100000363	
TUZI0066	01090 ZINC, DISSOLVED (UG/L AS ZN)	800617	0825	260000.0000000	21ARIZ	702600100000363	

**Water Quality Observations
Outside STORET Edit Criteria for TUZI
(Disposition: X = Discarded, Blank = Retained)**

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
TUZI0066	01090	ZINC, DISSOLVED (UG/L AS ZN)	800714	0810	25700.0000000	21ARIZ	702600100000363	
TUZI0066	01090	ZINC, DISSOLVED (UG/L AS ZN)	800805	0800	375000.0000000	21ARIZ	702600100000363	
TUZI0066	01090	ZINC, DISSOLVED (UG/L AS ZN)	800923	0815	540000.0000000	21ARIZ	702600100000363	
TUZI0066	01090	ZINC, DISSOLVED (UG/L AS ZN)	801013	0820	370000.0000000	21ARIZ	702600100000363	
TUZI0066	01090	ZINC, DISSOLVED (UG/L AS ZN)	801111	0800	360000.0000000	21ARIZ	702600100000363	
TUZI0066	01090	ZINC, DISSOLVED (UG/L AS ZN)	801209	0800	320000.0000000	21ARIZ	702600100000363	
TUZI0066	01092	ZINC, TOTAL (UG/L AS ZN)	800212	0842	164000.0000000	21ARIZ	702600100000363	
TUZI0066	01092	ZINC, TOTAL (UG/L AS ZN)	800319	0917	180000.0000000	21ARIZ	702600100000363	
TUZI0066	01092	ZINC, TOTAL (UG/L AS ZN)	800415	1400	214000.0000000	21ARIZ	702600100000363	
TUZI0066	01092	ZINC, TOTAL (UG/L AS ZN)	800520	0830	270000.0000000	21ARIZ	702600100000363	
TUZI0066	01092	ZINC, TOTAL (UG/L AS ZN)	800617	0825	260000.0000000	21ARIZ	702600100000363	
TUZI0066	01092	ZINC, TOTAL (UG/L AS ZN)	800714	0810	27000.0000000	21ARIZ	702600100000363	
TUZI0066	01092	ZINC, TOTAL (UG/L AS ZN)	800805	0800	407000.0000000	21ARIZ	702600100000363	
TUZI0066	01092	ZINC, TOTAL (UG/L AS ZN)	800826	0800	28000.0000000	21ARIZ	702600100000363	
TUZI0066	01092	ZINC, TOTAL (UG/L AS ZN)	800923	0815	540000.0000000	21ARIZ	702600100000363	
TUZI0066	01092	ZINC, TOTAL (UG/L AS ZN)	801013	0820	380000.0000000	21ARIZ	702600100000363	
TUZI0066	01092	ZINC, TOTAL (UG/L AS ZN)	801111	0800	370000.0000000	21ARIZ	702600100000363	
TUZI0066	01092	ZINC, TOTAL (UG/L AS ZN)	801209	0800	320000.0000000	21ARIZ	702600100000363	
TUZI0070	01042	COPPER, TOTAL (UG/L AS CU)	800318	1505	6900.0000000	21ARIZ	702600100000001	
TUZI0070	01090	ZINC, DISSOLVED (UG/L AS ZN)	800415	1745	110000.0000000	21ARIZ	702600100000001	
TUZI0070	01092	ZINC, TOTAL (UG/L AS ZN)	800318	1505	38000.0000000	21ARIZ	702600100000001	
TUZI0070	01092	ZINC, TOTAL (UG/L AS ZN)	800415	1745	250000.0000000	21ARIZ	702600100000001	
TUZI0071	00951	FLUORIDE, TOTAL (MG/L AS F)	800318	1530	18.0000000	21ARIZ	700000000022100	
TUZI0097	00400	PH (STANDARD UNITS)	741112	1500	22.5000000	21ARIZ	700000000023700	X

APPENDICES

Appendix A
Computer Files Transmitted With
Park Baseline Water Quality Data Inventory and Analysis

Computer disk(s) accompanying this report include up to seven (depending on the presence or absence of certain data elements) compressed (ZIP) files containing digital copies of nearly all the tables, figures, and other materials used to produce this report. To decompress these files, you must use the commonly available shareware program PKUNZIP. The command to type at the DOS prompt is:

PKUNZIP -E *COMPRESS.ZIP FILENAME.EXT*

where *COMPRESS.ZIP* is the name of one of the seven compressed (ZIP) files listed below and *FILENAME.EXT* is the name of the file you wish to extract. If you want to decompress all of the files in *COMPRESS.ZIP*, simply omit the *FILENAME.EXT*. To obtain a listing of all the files compressed into a particular ZIP file, type the following:

PKUNZIP -V *COMPRESS.ZIP* |MORE

where *COMPRESS.ZIP* is the name of one of the seven compressed ZIP files listed below. If a ZIP file spans multiple disks, use the last disk of the series (span) when obtaining a listing of all the files compressed into a particular ZIP file. Once you see the file you wish to obtain, substitute this file name for *FILENAME.EXT* in the first command line above to extract and decompress this particular file.

Included on one of the disk(s) accompanying this report is a program named PRINTZIP. This program will decompress ZIP files which don't span multiple disks and print certain files to a Hewlett-Packard (or compatible) Laser Printer. To use PRINTZIP, however, you must still have a copy of PKUNZIP in a directory listed in your path or in the same directory as the PRINTZIP program. PRINTZIP provides an easy, menu-driven interface for using PKUNZIP to decompress files and then send them to the printer. PRINTZIP allows you to send individual files, groups of files, or all files to the printer. PRINTZIP will not work with ZIP files that span multiple disks.

The following compressed (ZIP) files are included on the disk(s) accompanying this report:

(1) TUZITABS.ZIP

This compressed file contains all the tables presented in the report. The files compressed into this file include:

- (a) TUZISITE.DOC - Descriptive listing of select fields from the industrial facilities discharges, drinking water intakes, and EPA-USGS stream gages databases.
- (b) TUZIAGNC.DOC - Contacts for agencies whose data were retrieved within the study area.
- (c) TUZIAGNQ.DOC - Number of stations, observations, and parameters retrieved by agency code within the study area and park.

- (d) TUZIOV0.DOC - Overview of park and retrieved data.
- (e) TUZIOV1.DOC - Station period of record table.
- (f) TUZIOV2.DOC - Parameter period of record table.
- (g) TUZIOV3.DOC - Station/parameter period of record table.
- (h) TUZIINV.DOC - Station by station descriptive statistics over the entire period of record and comparison against EPA Water Quality Criteria for each station.
- (i) TUZISEAN.DOC - Seasonal and annual water quality descriptive statistics at stations with water quality data meeting the default seasonal and annual criteria.
- (j) TUZIEPAS.DOC - EPA Water Quality Criteria comparison for data at all stations combined within the study area.
- (k) TUZIIDEA.DOC - Comparison of downloaded STORET data with NPS Servicewide Inventory and Monitoring Program "Level I" water quality parameters.
- (l) TUZIBAD.DOC - Water quality observation values that were outside the range of one of 190 STORET edit criteria and were either discarded or retained.

All these compressed document files are in ASCII format and contain printer codes appropriate to Hewlett-Packard (or compatible) Laser Printers. While at the DOS prompt, any of these document files may be printed directly to a Hewlett-Packard (or compatible) Laser Printer by using the PRINT command. For example, if the document TUZIOV1.DOC is in the subdirectory C:\WATER, you could type: PRINT C:\WATER\TUZIOV1.DOC. This will print the file to your local or networked Hewlett-Packard (or compatible) Laser Printer attached to parallel port one (LPT1:). Alternatively, you can use the PRINTZIP program to decompress and print any of these files provided the ZIP file doesn't span multiple disks. These ASCII files can also be imported into word-processed documents, but the printer codes will then have to be removed.

(2) TUZIFIGS.ZIP

This compressed file contains graphics files for all the statistical figures (time series plots; annual box and whiskers plots; seasonal box and whiskers plots) in the report in two different formats: Computer Graphic Metafile (CGM) and Hewlett-Packard Printer Control Language (PCL). The files are named with the last three digits of the Station Name followed by the five digit STORET code. The file name extension begins with either a 1 (time series), 2 (annual), or 3 (seasonal) and then either GM for CGM or CL for PCL. For example, 00100300.2GM would denote the file contains an annual box and whiskers plot in CGM format for parameter 00300 (dissolved oxygen) at station TUZI0001. While at the DOS prompt, any PCL file can be printed directly to a Hewlett-Packard (or compatible) Laser Printer by using the COPY command. For example, if the graphic 00100300.2CL (an annual box and whiskers plot of parameter 00300, dissolved oxygen, at station TUZI0001) is in the subdirectory C:\WATER, you would type: COPY C:\WATER\00100300.2CL LPT1: /B. This will print the file to your local or networked Hewlett-Packard (or compatible) Laser Printer attached to parallel port one (LPT1:). The /B is necessary because the PCL file is in a binary format. Alternatively, you can use the PRINTZIP program to decompress and print any of the PCL files provided the ZIP file doesn't span multiple disks. The CGM files can be imported and/or edited in most graphics packages, including WordPerfect.

(3) TUZIPARM.ZIP

This file compresses TUZIPARM.DBF which contains all the actual values (raw data) of all the water quality data downloaded from STORET and summarized in the report. The detailed database structure for this file is contained in Appendix B.

(4) TUZISITE.ZIP

This compressed file contains up to five geo-referenced, DBASE III+ compatible site (point location) files documenting the location in the study area of water quality monitoring stations, industrial facilities discharges, drinking water intakes, water gages, and water impoundments. These files include:

- (a) TUZIWQ.DBF - All water quality monitoring station locations within the project's study area downloaded from STORET.
- (b) TUZIIFD.DBF - All municipal and industrial facility discharges within the project's study area downloaded from the IFD database.
- (c) TUZIDRIN.DBF - All drinking water intakes within the project's study area downloaded from the DRINKS database.
- (d) TUZIGAGE.DBF - All water gages within the project's study area downloaded from the GAGES database.
- (e) TUZIDAMS.DBF - All water impoundments within the project's study area downloaded from the DAMS database.

The absence of any of these files indicates that none of the particular sites were found within the study area. Detailed database structures for each of these files are contained in Appendix B.

(5) TUZIMISC.ZIP

This compressed file contains a variety of graphic and document files that are contained in the report. They are grouped into this miscellaneous compressed (ZIP) file because they don't fit neatly into any of the other compressed files. The files contained in this compressed file include:

- (a) TUZIEEXEC.DOC - WordPerfect Ver. 5.1 copy of the Executive Summary in the report.
- (b) TUZITOC.DOC - WordPerfect Ver. 5.1 copy of the report's Table of Contents.
- (c) INTRO.DOC - WordPerfect Ver. 5.1 copy of all the text in the report from the Introduction through the Interpretive Guide to Water Quality Results.
- (d) APPENDIX.DOC - WordPerfect Ver. 5.1 copy of all the Appendices in the report.
- (e) TUZIREGI - PCL and CLP (Windows Clipboard) copies of map displaying the regional location of the park and study area.
- (f) TUZIWQ - PCL and CLP (Windows Clipboard) copies of park maps displaying water quality station locations within the park's study area. If, due to scaling and aesthetic concerns, multiple maps were needed, these files will have alphabetically ordered suffixes (TUZIWQA, TUZIWQB, TUZIWQC, etc.) and the index map name will end with an ampersand (&).

- (g) TUZIIDG - PCL and CLP (Windows Clipboard) copies of park maps displaying locations of industrial facilities discharges, drinking water intakes, and stream gages within the park's study area. If, due to scaling and aesthetic concerns, multiple maps were needed, these files will have alphabetically ordered suffixes (TUZIIDGA, TUZIIDGB, TUZIIDGC, etc.) and the index map name will end with an ampersand (&). If no industrial facilities discharges, drinking water intakes, water gages, or water impoundments exist within the park's study area, these files will not be in the compressed (ZIP) file.
- (h) TUZISEHY - PCL and CLP (Windows Clipboard) copies of the hydrographs or other materials used by WRD staff as the basis for a first attempt at a seasonal analysis of the park's water quality data.

Other materials may also be included in this miscellaneous compressed (ZIP) file as warranted by conditions at the park. As with TUZIFIGS.ZIP and TUZITABS.ZIP, you can use the PRINTZIP program to print any of the PCL files in TUZIMISC.ZIP provided the ZIP file doesn't span multiple disks. You should not, however, use PRINTZIP to print the WordPerfect document files. The CLP (Windows Clipboard) files can be imported (pasted) and/or edited in most Windows-based word processors and graphics packages.

(6) TUZIRF3.ZIP

This compressed file contains the Environmental Protection Agency's River Reach File Ver. 3.0 provisional data for the USGS catalog unit(s) encompassing the study area. The attribute data exist in both ASCII and DBASE III+ format, while the geographic traces exist in ASCII format. This compressed file contains four files for each catalog unit that touches the study area. Catalog units are identified by unique 8-character numeric names which identify the region, subregion, accounting unit, and catalog unit. Examples (your 8-character numeric names will be different) of the file types included in this compressed file are:

- (a) 12345678.RF3 - ASCII formatted attribute file from the River Reach File for all hydrographic traces within the catalog unit.
- (b) 12345678.DBF - DBASE III+ formatted attribute file from the River Reach File for all hydrographic traces within the catalog unit.
- (c) 12345678.TRC - ASCII formatted geographic file from the River Reach File containing digital, geo-referenced descriptions of all hydrographic traces within the catalog unit at a scale of 1:100,000 suitable for import into a geographic information system.
- (d) 12345678.CUB - ASCII formatted geographic file from the River Reach File containing a digital, geo-referenced description of the catalog unit boundary suitable for import into a geographic information system.

Detailed database structures for RF3-related files are contained in Appendix B.

(7) TUZIWQMW.ZIP

Between 2000 and 2002, all Baseline Water Quality Data Inventory and Analysis Reports were compiled or re-compiled in Microsoft Word 2000 (Ver. 9.0) format. This complete, digital version of the report will be made available through various means, including the Internet. Although the reports can be opened in Microsoft Word 1997 (Ver. 8.0), the time series and annual and seasonal box-plots may not be centered appropriately on a page due to discrepancies with how Word 2000 formats pictures and how Word 1997 formatted pictures. Consequently, Word 2000 is the recommended software for viewing the report. Prior to printing the report from Word, be sure to enable "Print Text as Graphics" or "Print True Type Font as Graphics" in the Printer Properties. This ensures a more faithful reproduction of the maps included in the Word document.

The Microsoft Word version of the Baseline Water Quality Data Inventory and Analysis Report may differ slightly from the original analog version. Reports issued during 1994-1996 didn't have as many "bells-and-whistles" as subsequent reports. In compiling digital Microsoft Word versions of these earlier reports, attempts were made to bring these 1994-1996 reports up to the current standard wherever feasible and practicable. Unfortunately, some changes were not feasible or practicable. For example, water quality criteria screens were added or modified over time when newer criteria became available. The digital Microsoft Word version of Appendix F presents the latest criteria screening parameters and values. Some of these parameters and/or values may not have been screened against in the EPA water quality criteria analyses for each station and the entire study area in the 1994-1996 analog versions of the report. Similarly, the Introduction, Methodology, and Interpretive Guide to Water Quality Results may mention certain features that aren't included in the 1994-1996 reports. Additionally, to prepare a Microsoft Word version of this report, data were processed through different versions of software than used originally. Consequently, some results presented in the Overview and Executive Summary may differ slightly from those presented in the analog report (eg. # of In Park and Longer Term Stations).

Appendix B

Water Quality Database File Structures

The following table provides the DBASE III+ database field structure for all the water quality parameter data downloaded from STORET. This data will allow parks or other interested parties to replicate the statistical analyses and graphics contained in this report; perform more sophisticated analyses; or to establish a baseline park water quality database.

Parameter Data File: TUZIPARM.DBF in TUZIPARM.ZIP				
Field Name	Start	Stop	Length	Field Description
NPSSTATID	1	8	8	NPS Station ID (NPS park code + 4 digit sequence number)
BEGDATE	9	14	6	Measurement Start Date [yymmdd]
BEGTIME	15	18	4	Measurement Start Time [hhmm]
PARMCODE	19	23	5	STORET Parameter Code
PARMVALU	24	39	16.7	Parameter Value
REMARK	40	40	1	Parameter Remark Value
				A=Value is Mean of 2 or More Determinations
				B=Results Based Upon Colony Counts Outside Acceptable Range
				C=Value Calculated
				D=Field Measurement
				E=Extra Sample Taken in Compositing Process
				F=Female Species
				G=Maximum of 2 or More Determinations
				H=Based on Field Kit Determination
				I=Value is Less Than Practical Quantitation Limit and Greater Than or Equal to the Method Detection Limit
				J=Estimated, Not the Result of Analytic Measurement
				K=Off-scale Low, Actual Value Not Known, But Known to be Less Than Value Shown
				L=Off-scale High, Actual Value Not Known, But Known to be Greater Than Value Shown

Parameter Data File: TUZIPARM.DBF in TUZIPARM.ZIP				
Field Name	Start	Stop	Length	Field Description
				M=Presence Verified, But Not Quantified, Below Quantification Limit; For Species, Male; For Oxygen Reduction Potential, Indicates a Negative Value
				N=Presumptive Evidence of Presence
				O=Analysis Lost
				P=Too Numerous to Count
				Q=Exceeded Normal Holding Time
				R=Significant Rain in Last 48 Hours
				S=Laboratory test
				T=Less Than Detection Criteria
				U=Analyzed For But Not Detected, Value is Detection Limit For Process Used; If Species, Undetermined
				V=Analyte was Detected in Sample and Method Blank
				W=Less Than Lowest Value Reportable Under Remark "T"
				X=Quasi Vertically-Integrated Sample
				Y=Analysis of Unpreserved Sample
				Z=Too Many Colonies Were Present to Count (TNTC), Value Represents Filtration Value
				\$=Calculated By Retrieval Software
MEDIA	41	46	6	Sample Media
DEPTH	47	55	9.3	Depth of Sample [in feet]
ENDDATE	56	61	6	Measurement End Date [yymmdd] [all composite samples]
ENDTIME	62	65	4	Measurement End Time [hhmm] [all composite samples]
SAMPTYPE	66	69	4	Type of Sample ["sophisticated" composite samples]
				C=Continuous Collection
				G=Collection of Individual Grab Samples
				GNxx=xx is the Number of Individual Grab Samples
				B=N/A

Parameter Data File: TUZIPARM.DBF in TUZIPARM.ZIP				
Field Name	Start	Stop	Length	Field Description
COMPTYPE	70	70	1	Composite Value Type ["sophisticated" composite samples]
				A=Average
				H=Maximum
				L=Minimum
				N=Number of Observations
				#=Number of Observations
				S=Standard Deviation
				U=Sum of Squares
				V=Variance
				C=Coefficient of Error
				X=Coefficient of Variance
				E=Skewness
				F=Kurtosis
				Z=Number of Observations That Exceed an Established Limit
				%=Precision
				\$=Accuracy
				B=N/A
				D=Indicates Replicate Sample
COMPST	71	71	1	Composite Space/Time Indicator
				S=Space
				T=Time
				B=Space and Time
				F=Flow Proportional
				1-9=Replicate Number

Note: DBASE III+ record lengths will be one greater than the last stop column displayed (71 here) because DBASE III+ reserves the first space/column of every record for a deletion flag. Hence, DBASE III+ will display a record length of 72 for this database.

The following table provides the DBASE III+ database field structure for all the water quality station locations downloaded from STORET. As this file is geo-referenced, it should import easily into the park's Geographic Information System.

Water Quality Station Data File: TUZIWQ.DBF in TUZISITE.ZIP				
Field Name	Start	Stop	Length	Field Description
NPSSTATID	1	8	8	NPS Station ID (NPS park code + 4 digit sequence number)
AGENCY	9	16	8	Agency Code of Station Owner
STORIDP	17	31	15	STORET Primary Station Code
STORIDS1	32	43	12	STORET First Secondary Station Code
STORIDS2	44	55	12	STORET Second Secondary Station Code
STORIDS3	56	65	10	STORET Third Secondary Station Code
LATITUDE	66	73	8	Station Latitude [degrees:minutes:seconds]
LONGITUDE	74	82	9	Station Longitude [degrees:minutes:seconds]
LAT	83	93	11.6	Station Latitude [decimal degrees, (-) below equator]
LON	94	104	11.6	Station Longitude [decimal degrees, (-) western hemisphere]
LLPREC	105	105	1	Latitude/Longitude Precision Code
RMI	106	329	224	River Mile Index
STATLOC	330	377	48	Station Location Description
CNTYCODE	378	382	5	FIPS State/County Code
STNAME	383	398	16	State Name
CNTYNAME	399	418	20	County Name
HYDUNIT	419	426	8	Hydrologic Unit Code (MAJ/MIN/SUB = Catalog Unit)
MAJBASN	427	450	24	Major Basin Name
MINBASN	451	490	40	Minor Basin Name
STATTYPE	491	550	60	Station Type
STORDATE	551	556	6	Date Station was Stored in STORET
RF1INDEX	557	567	11	RF1 Reach Number Location [2]
RF1MILE	568	575	8.3	Mile Point on RF1 Reach [2]
RF1LOC	576	578	3	Indicates the Location as ON or OFF RF1 Reach [2]
RF1DIST	579	584	6.2	Distance From RF1 Reach

Water Quality Station Data File: TUZIWQ.DBF in TUZISITE.ZIP				
Field Name	Start	Stop	Length	Field Description
RF3INDEX	585	601	17	RF3 Reach Number Location [3]
RF3MILE	602	607	6.2	Mile point on RF3 Reach [3]
RF3LOC	608	610	3	Indicates the Location as ON or OFF RF3 Reach [2]
RF3DIST	611	616	6.2	Distance From RF3 Reach
DEPH2O	617	620	4	Depth of Water at Station Location [in feet]
ELEV	621	625	5	Station Elevation
ECOREG	626	628	3	ECO Region
H2OBODY	629	678	50	Waterbody ID
AQUIFERS	679	718	40	Aquifer Description
STATDESC1	719	790	72	Station Sentence Description
STATDESC2	791	862	72	Station Sentence Description
STATDESC3	863	934	72	Station Sentence Description
STATDESC4	935	1006	72	Station Sentence Description
STATDESC5	1007	1078	72	Station Sentence Description
STATDESC6	1079	1150	72	Station Sentence Description
STATDESC7	1151	1222	72	Station Sentence Description
STATDESC8	1223	1294	72	Station Sentence Description
STATDESC9	1295	1366	72	Station Sentence Description
STATDESC10	1367	1438	72	Station Sentence Description
STATDESC11	1439	1510	72	Station Sentence Description
STATDESC12	1511	1582	72	Station Sentence Description
STATDESC13	1583	1654	72	Station Sentence Description
STATDESC14	1655	1726	72	Station Sentence Description
STATDESC15	1727	1798	72	Station Sentence Description
STATLOCKED	1799	1799	1	Station Locked (Logical) True/False

The following table provides the DBASE III+ database field structures for the EPA Industrial Facilities Discharge database. As this file is geo-referenced, it should import easily into the park's Geographic Information System.

Industrial Facilities Discharges File: TUZIHFD.DBF in TUZISITE.ZIP				
Field Name	Start	Stop	Length	Field Description
SITEID	1	9	9	Site Identifier (NPDES Number)
LATITUDE	10	17	8	Facility Latitude (Degrees:Minutes:Seconds)
LONGITUDE	18	26	9	Facility Longitude (Degrees:Minutes:Seconds)
LAT	27	37	11.6	Facility Latitude (decimal degrees, (-) below equator)
LON	38	48	11.6	Facility Longitude (decimal degrees, (-) west. hem.)
RF1INDEX	49	59	11	RF1 Reach Number Location
RF1MILE	60	65	6.2	Mile Point on RF1 Reach
RF1DIST	66	71	6.2	Distance From RF1 Reach
RF3INDEX	72	88	17	RF3 Reach Number Location
RF3MILE	89	94	6.2	Mile Point on RF3 Reach
RF3DIST	95	100	6.2	Distance From RF3 Reach
ADR	101	125	25	Address
BFL	126	132	7.2	Total Direct Combined C&P Flow (1000 GPD)
CCFLG	133	133	1	Coastal County Flag "Y"/"N"/"E"=Estuary
CC1	134	138	5	City Code #1 (EPA Code)
CFL	139	145	7.2	Total Direct Cooling Flow (1000 GPD)
CNC	146	148	3	County Code (FIPS)
CTY	149	168	20	City Name
CZIP	169	177	9	Canadian Zip Code
DNB	178	186	9	Dunn & Bradstreet Number
DNBFLG	187	187	1	Dunn & Bradstreet PCS Source Flag
EGF	188	202	15.4	Flow From Effluent Guidelines (1000 GPD)
EGS	203	208	6	Effluent Guidelines Subcategory
EXPDT	209	216	8	Expiration Date (mm/dd/yy)
E308SN	217	220	4	Effluent Guidelines Survey Number
FAC	221	229	9	SCS Facility Identifier (Cross-Reference)
FDS	230	232	3	Facility Data Source

Industrial Facilities Discharges File: TUZIHFD.DBF in TUZISITE.ZIP				
Field Name	Start	Stop	Length	Field Description
FFL	233	239	7.2	Total Facility Flow (1000 GPD)
FHF	240	240	1	Fac. Hit Flag (Reach File) V=Versar Assumed
FLOTYP	241	243	3	I=Blow Down, R=Bottom Ash, S=Fly Ash
FLR	244	250	7.2	Flow Recvd-Industrial (1000 GPD) Permit Data
FRDS	251	259	9	FRDS ID# - XREF To Water Supply
FRW	260	289	30	Facility Receiving Water Name
FS1	290	293	4	Facility SIC Code (From PCS)
FS2	294	297	4	Facility SIC Code #1
FS3	298	301	4	Facility SIC Code #2
FS4	302	305	4	Facility SIC Code #3
FS5	306	309	4	Facility SIC Code #4
FUD	310	317	8	Facility Level Last Date Updated (mm/dd/yy)
IACC	318	318	1	Inactive/Active Indicator ("I" or "A")
ICAT	319	320	2	WQAB Industrial Category
ICAT2	321	322	2	WQAB Industrial Category 2
ICAT3	323	324	2	WQAB Industrial Category 3
IFL	325	331	7	Total Indirect Flow (1000 GPD)
IFT	332	332	1	Illinois Facility Type (A thru Z)
IG1	333	334	2	Facility Industrial Group #1
IG2	335	336	2	Facility Industrial Group #2
IJCN	337	346	10	Canadian Record Identifier
INACT	347	353	7	Inactive/Rescinded P=Based on Permit;A=Actual
INDCNT	354	357	4	Computed Number of Indirect Dischargers
LATLON	358	372	15	Polygon Retrieval Lat/Long.
MAJ	373	373	1	Major-Minor Flag (From PCS)
MAPID	374	377	4	Map Identifier
MJMN	378	381	4	Major/Minor Basin (EPA-STORET)
NAM	382	441	60	Facility Name
NDC	442	444	3	Number of Discharges (Pipes)

Industrial Facilities Discharges File: TUZIHFD.DBF in TUZISITE.ZIP				
Field Name	Start	Stop	Length	Field Description
NDSFLO	445	451	7.2	NEEDS Flow (1000 GPD)
NDSIFLO	452	458	7.2	NEEDS Industrial Flow (1000 GPD)
NID	459	462	4	Number of Indirect Dischargers
NPC	463	463	1	NEEDS Pre-Treatment Code "Y"=Yes, "N"=No
NPS	464	464	1	NPDES Facility Source/Status
NSN	465	473	9	NEEDS Survey Number
NTC	474	474	1	NEEDS Treatment Code
OCP	475	480	6	Organic Chemical Producers ID Number
ODESCC	481	481	1	ODES Coastal County "Y"=Yes; "N"=No
OFL	482	488	7.2	Total Non-Direct Other Flow (1000 GPD)
OWN	489	491	3	Ownership Code
PFL	492	498	7.2	Total Direct Process Flow (1000 GPD)
REG	499	500	2	EPA Region
REGKEY	501	504	4	Region Key
RSLOFLO	505	511	7.2	Receiving Stream Low Flow
RSMNFLO	512	518	7.2	Receiving Stream Mean Flow
STA	519	520	2	State Postal Abbreviation
STAID	521	535	15	State Identifier
STC	536	537	2	State Code (FIPS)
STCITY	538	544	7	State/City Code
TFLOW	545	551	7.2	Type Flow (1000 GPD)
UFL	552	558	7.2	Total Direct Undefined Flow (1000 GPD)
XEGS	559	561	3	Effluent Guidelines Subcat Index
XKEY	562	562	1	"1","2","3","4","5","6","7","8","9"
XNME	563	565	3	GLP,DIR,F2C,ENF,CET,LAG,PPB,M85,M86
ZIP	566	570	5	Zip Code

The following table provides the DBASE III+ database field structures for drinking water intakes from the EPA DRINKS database. As this file is geo-referenced, it should import easily into the park's Geographic Information System.

<u>Drinking Water Intakes File: TUZIDRIN.DBF in TUZISITE.ZIP</u>				
Field Name	Start	Stop	Length	Field Description
SITEID	1	20	20	Site Identifier
LATITUDE	21	28	8	Facility Latitude (Degrees:Minutes:Seconds)
LONGITUDE	29	37	9	Facility Longitude (Degrees:Minutes:Seconds)
LAT	38	48	11.6	Facility Latitude (decimal degrees, (-) below equator)
LON	49	59	11.6	Facility Longitude (decimal degrees, (-) west. hem.)
RF1INDEX	60	70	11	RF1 Reach Number Location
RF1MILE	71	76	6.2	Mile Point on RF1 Reach
RF1DIST	77	82	6.2	Distance From RF1 Reach
RF3INDEX	83	99	17	RF3 Reach Number Location
RF3MILE	100	105	6.2	Mile Point on RF3 Reach
RF3DIST	106	111	6.2	Distance From RF3 Reach
AQCD	112	115	4	Aquifer Code
ASC	116	138	23	STORET Agency/Station Code
AVGD	139	142	4	Average Depth
BUY	143	143	1	Purchase Code
CC1	144	148	5	City Code #1 (EPA Code)
CNC	149	151	3	County Code (FIPS)
CNME	152	166	15	Contact Name
CNN	167	186	20	County Name
CTITLE	187	201	15	Contact Title
CTY	202	221	20	City Name
DUD	222	229	8	Date of Update
FRDS	230	238	9	FRDS ID# - Cross-Reference
GEOAG	239	258	20	Geologic Age
GEOCDE	259	261	3	Geologic Age Code
IDAT	262	269	8	Date (mm/dd/yy)

<u>Drinking Water Intakes File: TUZIDRIN.DBF in TUZISITE.ZIP</u>				
Field Name	Start	Stop	Length	Field Description
INTAKET	270	270	1	Type Source G/S/B
INTRVWR	271	285	15	Interviewer
MAXD	286	289	4	Maximum Depth
MILES	290	296	7.2	Miles
MIND	297	300	4	Minimum Depth
NAME	301	320	20	Name
NPD	321	329	9	NPDES# XREF to IFD Database
NWLS	330	332	3	Number of Wells
OWN	333	335	3	Ownership
PAVGF	336	342	7.2	Production Avg. Daily (Gal/Day)
PCTSUP	343	345	3	%Surface / %Ground
PHONE	346	355	10	Telephone Number
PMAXF	356	362	7.2	Production Max. Daily (Gal/Day)
POPSV	363	371	9	Population Served
REG	372	373	2	EPA Region
SHLAT	374	379	6	Sitehelp Latitude (DDMMSS)
SHLNG	380	386	7	Sitehelp Longitude (DDDMMSS)
SHMILES	387	393	7.2	Sitehelp Miles
SHNME	394	403	10	Sitehelp Source Name
SHPCT	404	410	7.2	Sitehelp Percent of Reach Miles
SRC	411	413	3	Sitehelp Source Code
STA	414	415	2	State Abbreviation
STC	416	417	2	State Code (FIPS)
TUF	418	424	7.2	Total Utility Flow
TYPCDE	425	425	1	Type Code
UHF	426	426	1	Utility Hit Flag (Reach File)
VCDE	427	427	1	Versar Code='V'=>25K; '*'=<25K POPSVD
WFPC	428	428	1	Wellfield Precision Code
WFTYP	429	429	1	Well Type (Cassing,Artesian,Infiltration,etc.)

<u>Drinking Water Intakes File: TUZIDRIN.DBF in TUZISITE.ZIP</u>				
Field Name	Start	Stop	Length	Field Description
WUN	430	449	20	Water Utility Name

The following table provides the DBASE III+ database field structures for the Water Gage database. As this file is geo-referenced, it should import easily into the park's Geographic Information System.

<u>Water Gage File: TUZIGAGE.DBF in TUZISITE.ZIP</u>				
Field Name	Start	Stop	Length	Field Description
SITEID	1	20	20	Site Identifier
LATITUDE	21	28	8	Facility Latitude (DDMMSS)
LONGITUDE	29	37	9	Facility Longitude (DDDMMSS)
LAT	38	48	11.6	Facility Latitude (decimal degrees, (-) below equator)
LON	49	59	11.6	Facility Longitude (decimal degrees, (-) west. hem.)
RF1INDEX	60	70	11	RF1 Reach Number Location
RF1MILE	71	76	6.2	Mile Point on RF1 Reach
RF1DIST	77	82	6.2	Distance From RF1 Reach
RF3INDEX	83	99	17	RF3 Reach Number Location
RF3MILE	100	105	6.2	Mile Point on RF3 Reach
RF3DIST	106	111	6.2	Distance From RF3 Reach
JAN	112	118	7.2	Monthly Flow - January
FEB	119	125	7.2	Monthly Flow - February
MAR	126	132	7.2	Monthly Flow - March
APR	133	139	7.2	Monthly Flow - April
MAY	140	146	7.2	Monthly Flow - May
JUN	147	153	7.2	Monthly Flow - June
JUL	154	160	7.2	Monthly Flow - July
AUG	161	167	7.2	Monthly Flow - August
SEP	168	174	7.2	Monthly Flow - September
OCT	175	181	7.2	Monthly Flow - October
NOV	182	188	7.2	Monthly Flow - November
DEC	189	195	7.2	Monthly Flow - December
RGN	196	197	2	Region Code
AREA	198	204	7.2	Drainage Area (SQ.MI.)
DUD	205	212	8	Date of Update

<u>Water Gage File: TUZIGAGE.DBF in TUZISITE.ZIP</u>				
Field Name	Start	Stop	Length	Field Description
FBCF	213	213	1	Flag - Basic Characteristic File ('Y')
FDFE	214	214	1	Flag - Daily Flows File ('Y')
FQMINV	215	224	10	IHS Pt. Files Index
GHF	225	225	1	Hit Flag (Reach File)
ICDE	226	226	1	Integrity Code
LFVEL	227	233	7.2	Low Flow Velocity
METHOD	234	236	3	Calculation Method Code
MFVEL	237	243	7.2	Mean Flow Velocity
MNFLO	244	250	7.2	USGS Mean Annual Flow
NME	251	298	48	Station Name
SHLAT	299	304	6	Sitehelp Latitude (DDMMSS)
SHLNG	305	311	7	Sitehelp Longitude (DDDMMSS)
SHMILES	312	318	7.2	Sitehelp Miles
SHNME	319	328	10	Sitehelp Source Name
SHPCT	329	335	7.2	Sitehelp Percent of Reach Miles
SITE	336	337	2	Site Location
SRC	338	340	3	Sitehelp Source Code
STCTY	341	345	5	State/County Numeric Code
SVTEN	346	352	7.2	USGS 7-10 Year Flow
BEG_WYR	353	356	4	Beginning Water Year
END_WYR	357	359	4	Ending Water Year
ELEV	361	368	8.2	Elevation (Feet)
WELL_DP	369	376	8.2	Well Depth (Feet)

The following table provides the DBASE III+ database field structures for the Water Impoundment database. As this file is geo-referenced, it should import easily into the park's Geographic Information System.

<u>Water Impoundment File: TUZIDAMS.DBF in TUZISITE.ZIP</u>				
Field Name	Start	Stop	Length	Field Description
SITEID	1	7	7	Site Identifier
SOURCE	8	10	3	Source of Data
ST1	11	12	2	Primary State Code Abbreviation
STCTY1	13	17	5	State/County Numeric Code
NAME	18	47	30	Official Name of Dam
LATITUDE	48	53	6	Facility Latitude (DDMMSS)
LONGITUDE	54	60	7	Facility Longitude (DDDMMSS)
LAT	61	70	10.6	Facility Latitude (decimal degrees, (-) below equator)
LON	71	81	11.6	Facility Longitude (decimal degrees, (-) west. hem.)
INME	82	111	30	Impoundment Name
RNME	112	139	28	River, Stream, or Tributary Name on Which Dam Built
CUSEGMI	140	149	10	Catalog Unit, Segment, and Segment Length
REGN	150	151	2	Water Resources Council Region Code
RGBSN	152	155	4	Water Resources Region/Basin Code
CU	156	163	8	Catalog Unit
SEG	164	166	3	Reach Segment of Dam
SEGL	167	171	5.2	Reach Segment Length
PURP	172	172	1	Major Purpose of Dam
				I=Irrigation
				H=Hydroelectric
				N=Navigation
				S=Water Supply
				R=Recreation
				P=Stock/Farm Pond
				D=Debris Control
				F=Flood Control

Water Impoundment File: TUZIDAMS.DBF in TUZISITE.ZIP				
Field Name	Start	Stop	Length	Field Description
				O=Other
FRF3	173	189	17	RF3 Reach Number Location
FRF3MI	190	194	5	Mile Point on RF3 Reach
PURPKEY	195	195	1	Purpose Key
PUR2	196	196	1	Purpose of Dam 2 (See Above)
PUR3	197	197	1	Purpose of Dam 3 (See Above)
PUR4	198	198	1	Purpose of Dam 4 (See Above)
PUR5	199	199	1	Purpose of Dam 5 (See Above)
PUR6	200	200	1	Purpose of Dam 6 (See Above)
PUR7	201	201	1	Purpose of Dam 7 (See Above)
PUR8	202	202	1	Purpose of Dam 8 (See Above)
PUR9	203	203	1	Purpose of Dam 9 (See Above)
PUR10	204	204	1	Purpose of Dam 10 (See Above)
TYPDAM	205	206	2	Major Dam Portion Type
				RE=Earth
				VA=Vaulted Arch
				CD=Buttress
				PG=Gravity
				ER=Rockfill
				MV=Multi-Arch
				OT=Other
YRCMP	207	210	4	Year Dam Completed
SHGT	211	214	4	Structural Height (Feet)
HHGT	215	218	4	Hydraulic Height (Feet)
VNORM	219	236	8	Normal Storage of Impoundment (Acre-Feet)
VMAX	227	234	8	Maximum Storage of Impoundment (Acre-Feet)
LCRST	235	239	5	Crest Length of Dam (Feet)
TSPL	240	240	1	Spillway Type
				C=Controlled

Water Impoundment File: TUZIDAMS.DBF in TUZISITE.ZIP				
Field Name	Start	Stop	Length	Field Description
				U=Uncontrolled
				N=None
				X=Unknown
WSPL	241	244	4	Dam Spillway Width (Feet)
QMAX	245	251	7	Maximum Spillway Discharge (CFS)
PINS	252	258	7.2	Quantity of Installed Power (Megawatts)
PPRO	259	265	7.2	Quantity of Proposed Power (Megawatts)
LOCK	266	266	1	Number of Navigational Locks
OWNR	267	290	24	Name of Impoundment Owner
PFOWN	291	291	1	Ownership Code
				N=Non-Federal
				G=Federal Government Agency
				C=Corps of Engineers
				X=Unknown
FEDR	292	292	1	Federally Regulated (Y=Yes, N=No, X=Unknown)
FLND	293	293	1	Private Dam on Federal Land (Y=Yes, N=No, X=Unknown)
SCSA	294	294	1	Type of Soil Conservation Service Assistance
				N=No Assistance
				T=Technical Assistance
				F=Financial Assistance
				B=Both Technical and Financial Assistance
				X=Unknown
DHAZ	295	295	1	Degree of Downstream Hazard
				1=High (More than a Few Lives Lost; Excessive Economic Loss)
				2=Significant (A Few Lives Lost; Appreciable Economic Loss)
				3=Low (No Lives Expected Lost; Minimal Economic Loss)
DCITY	296	319	24	Nearest Downstream City

<u>Water Impoundment File: TUZIDAMS.DBF in TUZISITE.ZIP</u>				
Field Name	Start	Stop	Length	Field Description
POP	320	326	7	Population of Downstream City
DMILE	327	331	5.2	Distance of Downstream City From Dam (Miles)
RET	332	342	11.2	Retention Coefficient (Dimensionless)
MIX	343	353	11.2	Mixing Coefficient (Dimensionless)
SAREA	354	361	8	Surface Area of Impoundment (Acres)
SAFLG	362	362	1	Surface Area Flag (C=Calc., M=Measured, O=Other)
ILNTH	363	367	5	Length of Impoundment (Feet)
ILFLG	368	368	1	Impoundment Length Flag (C=Calc., M=Measured, O=Other)
UPKEY	369	374	6	Update Key (YYMMDD)

The following table provides the ASCII and DBASE III+ database field structures for the EPA River Reach File Ver. 3.0 (1:100,000 scale hydrography) attributes. The actual numeric file names will vary depending on the catalog unit(s). This information can be readily incorporated into the park's Geographic Information System.

RF3 Structure File: 12345678.RF3 and 12345678.DBF in TUZIRF3.ZIP				
Field Name	Start	Stop	Length	Field Description
CATUNIT	1	8	8	Cataloging Unit (CU)
SEGM	9	12	4	Segment Number (SEG)
MI	13	17	5.2	Mile Point (MI)
UPMI	18	22	5.2	Upstream Mile Pt.
SEQNO	23	33	11.6	Hydro Sequence No.
RFLAG	34	34	1	Reach Flag (0,1)
OWFLAG	35	35	1	Open Water Flag (0,1)
TFLAG	36	36	1	Terminal Flag (0,1)
SFLAG	37	37	1	Start Flag (0,1)
RCHTYPE	38	38	1	Reach Type Code
LEV	39	40	2	Stream Level
JUNC	41	42	2	Level of Downstream Reach
DIVERGENCE	43	43	1	Divergence Code
STARTCU	44	51	8	Start CU
STRTSG	52	55	4	Start SEG
STOPCU	56	63	8	Stop CU
STOPSG	64	67	4	Stop SEG
USDIR	68	68	1	Upstream Direction
TERMID	69	73	5	Terminal Stream ID
TRMBLV	74	74	1	Terminal Base Level
PNAME	75	104	30	Primary Name
PNMCD	105	115	11	Primary Name Code
CNAME	116	145	30	Complement Name
CNMCD	146	156	11	Complement Name Code

RF3 Structure File: 12345678.RF3 and 12345678.DBF in TUZIRF3.ZIP				
Field Name	Start	Stop	Length	Field Description
OWNAME	157	186	30	Open Water Name
OWNMCD	187	197	11	Open Water Name Code
DSCU	198	205	8	Downstream CU
DSSEG	206	209	4	Downstream SEG
DSMI	210	214	5.2	Downstream MI
CCU	215	222	8	Complement CU
CSEG	223	226	4	Complement SEG
CMILE	227	231	5.2	Complement MI
CDIR	232	232	1	Complement Direction
ULCU	233	240	8	Upstream Left CU
ULSEG	241	244	4	Upstream Left SEG
ULMI	245	249	5.2	Upstream Left MI
URCU	250	257	8	Upstream Right CU
URSEG	258	261	4	Upstream Right SEG
URMI	262	266	5.2	Upstream Right MI
SEGL	267	272	6.2	Reach Length (Miles)
RFORGFLAG	273	273	1	RF Orgin flag(1,2,3)
ALTPNMCD	274	281	8	Alt. Primary Name Code
ALTOWNMC	282	289	8	Alt. OW Name Code
DLAT	290	297	8.4	Downstream Latitude
DLONG	298	305	8.4	Downstream Longitude
ULAT	306	313	8.4	Upstream Latitude
ULONG	314	321	8.4	Upstream Longitude
MINLAT	322	329	8.4	Minimum Latitude
MINLONG	330	337	8.4	Minimum Longitude
MAXLAT	338	345	8.4	Maximum Latitude
MAXLONG	346	353	8.4	Maximum Longitude
NDLGREC	354	357	4	No. of DLG Records
LLIKEY1	358	367	10	Starting DLG LL Key1

RF3 Structure File: 12345678.RF3 and 12345678.DBF in TUZIRF3.ZIP				
Field Name	Start	Stop	Length	Field Description
LL2KEY1	368	377	10	Ending DLG LL Key1
LL1KEY2	378	387	10	Starting DLG LL Key2
LL2KEY2	388	497	10	Ending DLG LL Key2
LL1KEY3	398	407	10	Starting DLG LL Key3
LL2KEY3	408	417	10	Ending DLG LL Key3
LL1KEY4	418	427	10	Starting DLG LL Key4
LL2KEY4	428	437	10	Ending DLG LL Key4
LL1KEY5	438	447	10	Starting DLG LL Key5
LL2KEY5	448	457	10	Ending DLG LL Key5
LL1KEY6	458	467	10	Starting DLG LL Key6
LL2KEY6	468	477	10	Ending DLG LL Key6
LL1KEY7	478	487	10	Starting DLG LL Key7
LL2KEY7	488	597	10	Ending DLG LL Key7
LL1KEY8	498	507	10	Starting DLG LL Key8
LL2KEY8	508	517	10	Ending DLG LL Key8
LL1KEY9	518	527	10	Starting DLG LL Key9
LL2KEY9	528	537	10	Ending DLG LL Key9
LL1KEY10	538	547	10	Start DLG LL Key 10
LL2KEY10	548	557	10	Ending DLG LL Key10
LN1AT2	558	561	4	DLG Line Attr. 1
LN2AT2	562	565	4	DLG Line Attr. 2
AREA1	566	569	4	DLG Area ID 1
AREA2	570	573	4	DLG Area ID 2
AR1AT2	574	577	4	DLG Area Attribute
AR1AT4	578	581	4	DLG Area Attribute
AR2AT2	582	585	4	DLG Area Attribute
AR2AT4	586	589	4	DLG Area Attribute
UPDATE1	590	595	6	Update Date #1 (mmddyy)
UPDTCD1	596	603	8	Update Type Code #1

RF3 Structure File: 12345678.RF3 and 12345678.DBF in TUZIRF3.ZIP				
Field Name	Start	Stop	Length	Field Description
UPDTSRC1	604	611	8	Update Source #1
UPDATE2	612	617	6	Update Date #2 (mmddyy)
UPDTCDC2	618	625	8	Update Type Code#2
UPDTSRC2	626	633	8	Update Source #2
UPDATE3	634	639	6	Update Date #3 (mmddyy)
UPDTCDC3	640	647	8	Update Type Code #3
UPDTSRC3	648	655	8	Update Source #3
DIVCU	656	663	8	Divergent CU
DIVSEG	664	667	4	Divergent SEG
DIVMILE	668	672	5.2	Divergent MI
DLGID	673	678	6	DLG Number Special Use For Internal State Codes
FILLER	678	685	7	Filler: Future Use

Note: The structure for the .DBF file varies slightly from the RF3 structure displayed here in that the fields UPDATE1, UPDATE2, and UPDATE3 have a width of 8 and the last two fields, DLGID and FILLER, have been replaced with a field named ID of length 17. This ID field combines the CATUNIT, SEGM, and MI fields.

The following table provides the ASCII database field structures for the EPA River Reach File Ver. 3.0 (1:100,000 scale hydrography) traces. The actual numeric file names will vary depending on the catalog unit(s). This file contains the actual hydrographic network and is suitable for conversion into a variety of Geographic Information System formats.

RF3 Trace File: 12345678.TRC in TUZIRF3.ZIP				
Field Name	Start	Stop	Length	Field Description
(Header Record)				
CATUNIT	1	8	8	Cataloging Unit
SEGM	9	12	4	Segment Number
MI	13	17	5.2	Mile Point
NPTS	18	21	4	Number of Lat/Lon Coordinates
(Coordinate Record)				
LATITUDE	1	8	8.4	Latitude in Decimal
LONGITUDE	9	16	8.4	Longitude in Decimal
FILLER	17	21	5	

The following table provides the ASCII database field structures for the EPA River Reach File Ver. 3.0 (1:100,000 scale hydrography) catalog unit boundary file. The actual numeric file names will vary depending on the catalog unit(s). This file contains the actual catalog unit boundary and is suitable for conversion into a variety of Geographic Information System formats.

Catalog Unit Boundary File: 12345678.CUB in TUZIRF3.ZIP
First Line = Catalog Unit Number (8 Characters)
Subsequent Lines:
L=DDMMSS,L=DDMMSS,L=DDMMSS,L=DDMMSS,L=DDMMSS,L=DDMMSS, ...
Example:
02070010
L=391259,L=0770809,L=391220,L=0770749,L=391147,L=0770715,L=391120,L=0770633,
L=391058,L=0770535,L=391042,L=0770520,L=391016,L=0770427,L=390948,L=0770416,
L=390526,L=0765331,L=390500,L=0765149,L=390456,L=0765139,L=390357,L=0765123,
...
L=390744,L=0771007,L=390826,L=0771022,L=390910,L=0771022,L=390950,L=0771003,
L=391107,L=0770922,
There can be as many as four latitude/longitude pairs per line.

The following table provides the DBASE III+ database field structure of the Water Resources Division's "encyclopedia" file that documents the minimum and maximum parameter values found and the park(s) where they occurred. This file is intended for Water Resources Division internal use, but will be available to anyone upon request after Baseline Water Quality Data Inventory and Analysis reports have been completed for all parks.

<u>Encyclopedia File: WRD File For Internal Use Only</u>				
Field Name	Start	Stop	Length	Field Description
PARM	1	5	5	STORET Parameter Code
PARAMNAME	6	45	40	Parameter Name
MINVAL	46	61	16.7	Minimum Value
MINVALPARK	62	65	4	Park Unit with Minimum Value
MAXVAL	66	71	16.7	Maximum Value
MAXVALPARK	72	75	4	Park Unit with Maximum Value

Appendix C

STORET Water Quality Control/Edit Checking

The following table provides the high and low values used by STORET since November 1983 for 190 common water quality parameters to screen or error check data. Data entered into STORET prior to November 1983, however, were not subjected to this edit/bounds check. Additionally, data from the USGS WATSTORE system that is loaded into STORET is never subjected to these edit criteria and agencies entering data in STORET can override these edit criteria to enter data values that fall outside a range. As a consequence, all data downloaded from STORET for the purposes of this project were filtered through these edit criteria to document values outside the generally accepted ranges. Decisions were then made on a case-by-case basis to retain or discard obviously incorrect data. Refer to the Water Quality Observations Outside STORET Edit Criteria section of the Interpretive Guide To Water Quality Results chapter for more information on this subject.

STORET Code	STORET Parameter Description	High Value	Low Value
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	37.0	-2.0
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	98.0	31.0
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	52.0	-40.0
00021	TEMPERATURE, AIR (DEGREES FAHRENHEIT)	125.0	-40.0
00026	TOXICS-IDENTIFY DATA COLLECTION BY EPA DIRECTIVE	1990.9	1977.0
00032	CLOUD COVER (PERCENT)	101.0	0.0
00035	WIND VELOCITY (MILES PER HOUR)	85.0	0.0
00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)	361.0	0.0
00045	PRECIPITATION, TOTAL (INCHES PER DAY)	15.0	0.0
00070	TURBIDITY, (JACKSON CANDLE UNITS)	1500.0	0.0
00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	101.0	0.0
00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	500.0	0.0
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	1000.0	0.0
00077	TRANSPARENCY, SECCHI DISC (INCHES)	600.0	0.0
00080	COLOR (PLATINUM-COBALT UNITS)	500.0	0.0
00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	500.0	0.0
00085	ODOR (THRESHOLD NUMBER AT ROOM TEMPERATURE)	250.0	0.0
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	60000.0	1.0
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	60000.0	1.0
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE (MG/L)	30.0	0.0

STORET Code	STORET Parameter Description	High Value	Low Value
00300	OXYGEN, DISSOLVED (MG/L)	30.0	0.0
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION%	200.0	0.0
00310	BOD, 5 DAY, 20 DEG C (MG/L)	150.0	0.0
00335	COD, .025N K2CR2O7 (MG/L)	1000.0	0.0
00340	COD, .25N K2CR2O7 (MG/L)	1000.0	0.0
00365	CHLORINE DEMAND, 15 MINUTE (MG/L)	15.0	0.0
00400	PH (STANDARD UNITS)	12.0	0.9
00403	PH, LAB, STANDARD UNITS, (STANDARD UNITS)	12.0	0.9
00405	CARBON DIOXIDE (MG/L AS CO2)	100.0	0.0
00406	PH, FIELD (STANDARD UNITS)	12.0	0.9
00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	1000.0	0.0
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	750.0	0.0
00435	ACIDITY, TOTAL (MG/L AS CaCO3)	1000.0	0.0
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CaCO3)	1000.0	0.0
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CaCO3)	750.0	0.0
00440	BICARBONATE ION (MG/L AS HCO3)	450.0	0.0
00445	CARBONATE ION (MG/L AS CO3)	100.0	0.0
00480	SALINITY - PARTS PER THOUSAND	40.0	0.0
00500	RESIDUE, TOTAL (MG/L)	15000.0	0.0
00505	RESIDUE, TOTAL VOLATILE (MG/L)	10000.0	0.0
00510	RESIDUE, TOTAL FIXED (MG/L)	10000.0	0.0
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C), (MG/L)	20000.0	0.0
00520	RESIDUE, VOLATILE FILTRABLE (MG/L)	10000.0	0.0
00525	RESIDUE, FIXED FILTRABLE (MG/L)	10000.0	0.0
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10000.0	0.0
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	10000.0	0.0
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	10000.0	0.0
00545	RESIDUE, SETTLEABLE (ML/L)	1000.0	0.0
00546	RESIDUE, SETTLEABLE (MG/L)	1000.0	0.0

STORET Code	STORET Parameter Description	High Value	Low Value
00550	OIL & GREASE (SOXHLET EXTRACTION) TOTAL,REC., (MG/L)	250.0	0.0
00600	NITROGEN, TOTAL (MG/L AS N)	100.0	0.0
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	15.0	0.0
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	25.0	0.0
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	20.0	0.0
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	5.0	0.0
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	50.0	0.0
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	50.0	0.0
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	55.0	0.0
00635	NITROGEN, AMMONIA & ORG., TOTAL 1 DET (MG/L AS N)	70.0	0.0
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	30.0	0.0
00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	30.0	0.0
00655	PHOSPHATE, POLY (MG/L AS PO4)	30.0	0.0
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	30.0	0.0
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10.0	0.0
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10.0	0.0
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	100.0	0.0
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	100.0	0.0
00685	CARBON, TOTAL INORGANIC (MG/L AS C)	100.0	0.0
00690	CARBON, TOTAL (MG/L AS C)	150.0	0.0
00720	CYANIDE, TOTAL (MG/L AS CN)	10.0	0.0
00745	SULFIDE, TOTAL (MG/L AS S)	1500.0	0.0
00746	SULFIDE, DISSOLVED (MG/L AS S)	1500.0	0.0
00760	SULFITE WASTE LIQUOR, PEARL BENSON INDEX (MG/L)	150.0	0.0
00900	HARDNESS, TOTAL (MG/L AS CaCO3)	5000.0	0.0
00910	CALCIUM (MG/L AS CaCO3)	3000.0	0.0
00915	CALCIUM, DISSOLVED (MG/L AS Ca)	1000.0	0.0
00916	CALCIUM, TOTAL (MG/L AS Ca)	1000.0	0.0
00920	MAGNESIUM (MG/L AS CaCO3)	3000.0	0.0

STORET Code	STORET Parameter Description	High Value	Low Value
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	1000.0	0.0
00927	MAGNESIUM, TOTAL (MG/L AS MG)	1000.0	0.0
00929	SODIUM, TOTAL (MG/L AS NA)	5000.0	0.0
00930	SODIUM, DISSOLVED (MG/L AS NA)	5000.0	0.0
00931	SODIUM ADSORPTION RATIO	50.0	0.0
00935	POTASSIUM, DISSOLVED (MG/L AS K)	175.0	0.0
00937	POTASSIUM, TOTAL MG/L AS K)	175.0	0.0
00940	CHLORIDE, TOTAL IN WATER, (MG/L)	22000.0	0.0
00945	SULFATE, TOTAL (MG/L AS SO4)	2500.0	0.0
00946	SULFATE, DISSOLVED (MG/L AS SO4)	2500.0	0.0
00950	FLUORIDE, DISSOLVED (MG/L AS F)	15.0	0.0
00951	FLUORIDE, TOTAL (MG/L AS F)	15.0	0.0
00955	SILICA, DISSOLVED (MG/L AS SI02)	2000.0	0.0
00956	SILICA, TOTAL (MG/L AS SI02)	2000.0	0.0
01000	ARSENIC, DISSOLVED (UG/L AS AS)	5000.0	0.0
01002	ARSENIC, TOTAL (UG/L AS AS)	5000.0	0.0
01005	BARIUM, DISSOLVED (UG/L AS BA)	2000.0	0.0
01007	BARIUM, TOTAL (UG/L AS BA)	2000.0	0.0
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	2000.0	0.0
01012	BERYLLIUM, TOTAL (UG/L AS BE)	2000.0	0.0
01020	BORON, DISSOLVED (UG/L AS B)	5000.0	0.0
01022	BORON, TOTAL (UG/L AS B)	5000.0	0.0
01025	CADMIUM, DISSOLVED (UG/L AS CD)	500.0	0.0
01027	CADMIUM, TOTAL (UG/L AS CD)	500.0	0.0
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	2000.0	0.0
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	2000.0	0.0
01033	CHROMIUM, TRI-VAL (UG/L AS CR)	2000.0	0.0
01034	CHROMIUM, TOTAL (UG/L AS CR)	2000.0	0.0
01040	COPPER, DISSOLVED (UG/L AS CU)	2000.0	0.0

STORET Code	STORET Parameter Description	High Value	Low Value
01042	COPPER, TOTAL (UG/L AS CU)	5000.0	0.0
01045	IRON, TOTAL (UG/L AS FE)	56000.0	0.0
01046	IRON, DISSOLVED (UG/L AS FE)	56000.0	0.0
01047	IRON, FERROUS (UG/L AS FE)	56000.0	0.0
01049	LEAD, DISSOLVED (UG/L AS PB)	1000.0	0.0
01051	LEAD, TOTAL (UG/L AS PB)	1000.0	0.0
01055	MANGANESE, TOTAL (UG/L AS MN)	5000.0	0.0
01056	MANGANESE, DISSOLVED (UG/L AS MN)	5000.0	0.0
01065	NICKEL, DISSOLVED (UG/L AS NI)	2000.0	0.0
01067	NICKEL, TOTAL (UG/L AS NI)	2000.0	0.0
01075	SILVER, DISSOLVED (UG/L AS AG)	5000.0	0.0
01077	SILVER, TOTAL (UG/L AS AG)	5000.0	0.0
01090	ZINC, DISSOLVED (UG/L AS ZN)	25000.0	0.0
01092	ZINC, TOTAL (UG/L AS ZN)	25000.0	0.0
01105	ALUMINUM, TOTAL (UG/L AS AL)	20000.0	0.0
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	20000.0	0.0
01145	SELENIUM, DISSOLVED (UG/L AS SE)	100.0	0.0
01501	ALPHA, TOTAL	200.0	0.0
01503	ALPHA, DISSOLVED	75.0	0.0
01505	ALPHA, SUSPENDED	150.0	0.0
03501	BETA, TOTAL	3500.0	0.0
03503	BETA, DISSOLVED	3000.0	0.0
03505	BETA, SUSPENDED	1500.0	0.0
09503	RADIUM 226, DISSOLVED	500.0	0.0
13501	STRONTIUM 90, TOTAL	500.0	0.0
22703	URANIUM, NATURAL, DISSOLVED	500.0	0.0
31501	COLIFORM, TOT, MEMBRANE FILTER, IMMED. M-ENDO MED, 35C	24000000.0	0.0
31502	COLIFORM, TOTAL, 10/ML	24000000.0	0.0
31503	COLIFORM, TOT, MEMBR FILTER, DELAYED, M-ENDO MED, 35C	24000000.0	0.0

STORET Code	STORET Parameter Description	High Value	Low Value
31504	COLIFORM, TOT, MEMBR FILTER, IMMED, LES ENDO AGAR, 35C	24000000.0	0.0
31613	FECAL COLIFORM, MEMBR FILTER, M-FC AGAR, 44.5C, 24HR	10000000.0	0.0
31615	FECAL COLIFORM, MPN, EC MED, 44.5C (TUBE 31614)	10000000.0	0.0
31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5C	10000000.0	0.0
31672	FECAL STREPTOCOCCI, PLATE COUNT M-ENTER AGAR, 35C, 48HR	500000.0	0.0
31673	FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	500000.0	0.0
31677	FECAL STREPTOCOCCI, MPN, AD-EVA, 35C (TUBE 31678)	500000.0	0.0
31679	FECAL STREPTOCOCCI, MF M-ENTEROCOCCUS AGAR, 35C, 48H	500000.0	0.0
31749	PLATE COUNT, TOTAL, TPC AGAR, 20C, 48 HRS	99999999.0	0.0
31751	PLATE COUNT, TOTAL, TPC AGAR, 35C, 24 HRS	99999999.0	0.0
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	500.0	0.0
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	750.0	0.0
32212	CHLOROPHYLL-B UG/L TRICHROMATIC UNCORRECTED	1000.0	0.0
32214	CHLOROPHYLL-C UG/L TRICHROMATIC UNCORRECTED	200.0	0.0
32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	500.0	0.0
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	200.0	0.0
32219	PHEOPHYTIN RATIO(OD 663)SPECTRO,BEFORE/AFTER ACID	2.0	0.0
32221	CHLOROPHYLL A,% OF(PHEOPHYTIN A+CHL A),SPEC-ACID.	101.0	0.0
32230	CHLOROPHYLL A (MG/L)	0.5	0.0
32231	CHLOROPHYLL B (MG/L)	0.8	0.0
32232	CHLOROPHYLL C (MG/L)	0.2	0.0
32234	CHLOROPHYLL, TOTAL (A+B+C) (MG/L)	1.0	0.0
32270	CHLOROFORM EXTRACTABLES TOTAL IN MG PER LITER	5.0	0.0
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	1500.0	0.0
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	10.0	0.0
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39340	GAMMA-BHC(LINDANE), WHOLE WATER, (UG/L)	20.0	0.0
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATER, (UG/L)	20.0	0.0
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0

STORET Code	STORET Parameter Description	High Value	Low Value
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
50060	CHLORINE, TOTAL RESIDUAL (MG/L)	5.0	0.0
60050	ALGAE, TOTAL (CELLS/ML)	700000.0	0.0
70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), (MG/L)	4000.0	0.0
70505	PHOSPHATE, TOTAL,COLORIMETRIC METHOD (MG/L AS P)	10.0	0.0
70507	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	10.0	0.0
71850	NITRATE NITROGEN, TOTAL (MG/L AS NO3)	65.0	0.0
71886	PHOSPHORUS, TOTAL, AS PO4 - (MG/L)	30.0	0.0
71890	MERCURY, DISSOLVED (UG/L AS HG)	10.0	0.0
71895	MERCURY, SUSPENDED (UG/L AS HG)	10.0	0.0
71900	MERCURY, TOTAL (UG/L AS HG)	10.0	0.0
74010	IRON, TOTAL (MG/L AS FE)	56000.0	0.0

Appendix D

STORET Administrative Parameters

STORET Code	Description of STORET Administrative Parameters
00022	LENGTH OF EXPOSURE OF SAMPLE OR TEST - DAYS
00026	TOXICS-IDENTIFY DATA COLLECTION BY EPA DIRECTIVE
00027	CODE NO FOR AGENCY COLLECTING SAMPLE
00028	CODE NO FOR AGENCY ANALYZING SAMPLE
00029	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE
00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION
00073	SAMPLE LOC CODE DEFINED BY THERMAL STRUCT & DEPTH
00111	RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI
00115	SAMPLE TREATMENT CODE (1=RAW,2=TREATED)
00116	INTENSIVE SURVEY IDENTIFICATION NUMBER
00145	TOTAL PRODUCTION OF PRODUCT MANUFACTURED TONS/DAY
01273	TOTAL ACID PRIORITY POLLUTANTS MG/L
01274	TOTAL BASE-NEUTRAL PRIORITY POLLUTANTS MG/L
01275	TOTAL VOLATILE PRIORITY POLLUTANTS MG/L
01365	ANALYSIS DATE (DIOXIN) (YYMMDD)
04177	SAMPLE STABILIZATION, RECOVERY TEST CODE
04178	FIELD PROTOCOL(CONFDNCE ASSIGNED FIELD SAMPLE) CODE
04179	SAMPLE STATION LOCKED CODE
04180	CONDITION OF STATION SITE CODE
04181	LABORATORY QA/QC PLAN CONFIDENCE CODE
04182	SAMPLE TYPE CODE
04183	SAMPLE REMARKS CODE
30333	BAG MESH SIZE, BEDLOAD SAMPLER, MM
34772	NPDES NUMBER, CROSS REFERENCE CODE
34785	GAGE TYPE, METHOD CODE

STORET Code	Description of STORET Administrative Parameters
45575	GC MAKE AND MODEL INFORMATION CODE
45576	GC DETECTOR TYPE CODE
45577	GC COLUMN TYPE CODE
45580	METHOD OF ANALYSIS CODE
45581	LABORATORY LOCATION CODE
46107	SAMPLE LOCATION CODE (TREATMENT PLANT OPERATION)
46390	TOXICITY CHARACTERISTIC LEACHING PROCEDURE P OR F
46396	PROCESS TO SIGNIFICANTLY REDUCE PATHOGENS YES OR NO
46397	PROCESS TO FURTHER REDUCE PATHOGENS YES OR NO
47001	PERMIT EXPIRATION DATE (JULIAN CALENDAR)
47044	OBSERVATIONS,WASTE SITE-SEVERITY OF PROBLEMS CODE
47460	SUBSAMPLE - DECIMAL FRACTION OF WHOLE NUMBER
47477	COMPOSITION AND/OR DISPOSITION OF CATCH NUM CODE
70231	CURRENT DIRECTION (DEGREES FROM DOWNSTREAM FLOW)
71999	SAMPLE PURPOSE CODE
72032	NUMBER OF SPILLWAY GATES OPEN
73672	DATE OF ANALYSIS YYMMDD
73673	DATE OF EXTRACTION YYMMDD
74031	GRANT, PROJECT COST ELIGIBLE FOR CONSTRUCTION
74032	GRANT, AMOUNT OF PL 660 GRANT FOR THIS PROJECT
74033	GRANT, FEDERAL, OTHER THAN PL 660 GRANT
74034	GRANT, FUTURE PL 660 WHICH MAY APPLY TO THIS PROJ
74035	GRANT, TOTAL FEDERAL, WHICH APPLIES TO THIS PROJ
74036	GRANT, PROJ NUMBER ASSIGNED TO THIS APPLICATION
74037	GRANT, TYPE OF PROJECT TO WHICH GRANT APPLIES
74038	GRANT, STATUS OF PROJECT TO WHICH GRANT APPLIES
74039	PCS/STORET WATER QUALITY FILE INTERFACE YR/MO/DAY
74040	SURVEY NUMBER YYMMNO
74041	STORET STORAGE TRANSACTION DATE YR/MO/DAY

STORET Code	Description of STORET Administrative Parameters
74050	RADIOACTIVITY, GENERAL (PERMIT)
74051	ALGICIDES, GENERAL (PERMIT)
74052	CHLORINATED HYDROCARBONS, GENERAL (PERMIT)
74053	PESTICIDES, GENERAL (PERMIT)
74056	COLIFORM, TOTAL, GENERAL (PERMIT)
74065	STREAM FLOW CLASS
74066	ANNUAL RUNOFF
74067	SOIL CLASSIFICATION
74068	WATER QUALITY DESIGNATED USE CLASSIFICATION (IA)
74100	PRIMARY 1972 SIC CODE
74101	SECONDARY 1972 SIC CODE
74102	SECONDARY 1972 SIC CODE
74103	SECONDARY 1972 SIC CODE
74200	SAMPLE PRESERVATION METHODS ONE OR MORE IN COMB.
74205	LAND RESOURCE AREA (IOWA)
74206	SOIL EROSION POTENTIAL (IOWA)
74209	WATER QUALITY INDEX - STATE OF ILLINOIS, EPA
74210	FOREST STREAM WATER QUALITY INDEX CALC. NUMBER
74990	FISH SPECIES NUMERIC CODE - F&W SERVICE
74995	ANATOMY CODE
75000	SPECIES CODE-REMARK=SEX (M=MALE,F=FEMALE,U=UNK.)
81028	WITHDRAWAL OF GROUNDWATER (MILLION GAL/DAY)
82258	WATER CLASSIFICATION CODE (1-9) CODE
82292	DATA RELAY GROUND STATION SOURCE NODE CODE, CODE
82309	CONTAMINATION SOURCE POSSIBLE CODES NUMERIC CODE
82310	DEPTH CONFIDENCE IN REPORTED VALUES NUMERIC CODES
82373	FREQUENCY OF SAMPLING M=MON,Q=QUAR,Y=YR,R=RNFFCODE
82519	DRILLER REGISTRATION NUMBER ALPHA-NUMERIC CODE
82562	NARRATIVE REQUIREMENT EXCEEDANCES INTEGER

STORET Code	Description of STORET Administrative Parameters
82576	DAILY EXCURSION TIME, WATER MIN
82577	MONTHLY EXCURSION TIME, WATER TOTAL MIN
82578	DAY/MAXIMUM EXCURSION TIME, WATER MIN
82579	CODE NUMBER FOR PERSON COLLECTING SAMPLE
84002	CODE, GENERAL INFORMATION - ALPHA, NUMERIC CODE
84003	WATER SHED ID NUMBER (IOWA)
84005	FISH SPECIES CODE-FISH & WILDLIFE SER
84006	OWNERSHIP CLASSIFICATION OF LAKE, ILLINOIS SYSTEM
84010	PUBLIC ACCESS TO LAKE ILLINOIS SYSTEM
84011	CONFIDENCE CODE FOR GLC CONFIRMATION CODE
84012	PATIENT PARAMETERS (AGE, SEX, WT, ETC.) CODE
84013	SAMPLE PARAMETERS D=DESIGN SPECIMEN, S=SURPLUS
84027	CODE NUMBER FOR AGENCY COLLECTING SAMPLE
84028	CODE NO FOR AGENCY ANALYZING SAMPLE
84029	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE FIELD
84033	EGD ANALYTICAL DATA COMPLETENESS Y=YES N=NO CODE
84034	EGD SMPL NO.(SMPL.IDENT) NUMERIC=SCS ALPH+4NUM=JRB
84035	EGD SAMPLE CLASSIFICATION CATEGORY ALPHA CODE
84036	EGD INDUSTRIAL CATEGORY NUMERIC CODE
84037	EGD INDUSTRIAL CATEGORY NAME ALPHA CODE
84038	EGD LABORATORY NUMERIC CODE
84039	EGD LABORATORY NAME ALPHA CODE
84040	EGD SAMPLE STATUS (1-5,9,AND BLANK) NUMERIC CODE
84041	EGD ACID STATUS (1-5,9,AND BLANK) NUMERIC CODE
84042	EGD BASE STATUS (1-5,9AND BLANK) NUMERIC CODE
84043	EGD PESTICIDE STATUS (1-5,9,AND BLANK) NUMERIC CODE
84044	EGD VOA FRACT. STATUS INDICATOR (1-5,9,BLANK) CODE
84045	EGD ACID EXTRACT DATE (YYMMDD) NUMERIC CODE
84046	EGD BASE EXTRACTION DATE (YYMMDD) NUMERIC CODE

STORET Code	Description of STORET Administrative Parameters
84047	EGD PESTICIDE EXTRACTION DATE (YYMMDD) NUMERIC CODE
84048	EGD VOA FRACTION INJECTION DATE YYMMDD NUMERIC CODE
84049	EGD ACID CONC. FACTOR (FIVE NUMERIC DIGITS) CODE
84050	EGD BASE CONC.FACTOR (FIVE NUMERIC DIGITS) CODE
84051	EGD PESTICIDE CONC.FACTOR (FIVE NUMERIC DIGITS) CODE
84052	EGD VOA FRACTION CONC. FACTOR (5 NUMERIC DIGITS) CODE
84053	SAMPLE TYPE AND FREQUENCY OF COLLECTION CODE
84054	LITHOLOGY ALPHA-NUMERIC CODE
84055	AVAILABLE LOGS ALPHA-NUMERIC CODE
84056	WATER USE CATEGORY ALPHA-NUMERIC CODE
84057	INSPECTION TYPE ALPHA-NUMERIC CODE
84058	HYDROGEOLOGIC SYSTEM ALPHA-NUMERIC CODE
84059	WELL OWNERSHIP ALPHA-NUMERIC CODE
84060	TOPOGRAPHY ALPHA-NUMERIC CODE
84061	WELL USE ALPHA-NUMERIC CODE
84062	MEASURING POINT DESCRIPTION ALPHA-NUMERIC CODE
84063	DRILLING METHOD ALPHA-NUMERIC CODE
84064	WELL DATA AVAILABILITY ALPHA-NUMERIC CODE
84065	PERMIT COMPLIANCE DATA ALPHA-NUMERIC CODE
84067	NATURE OF MONITORING ALPHA-NUMERIC CODE
84073	REPLACES EXISTING WELL ALPHA-NUMERIC CODE
84074	AQUIFER TYPE (SEE USGS HANDBOOK) ALPHA CODE
84075	WELL PERMIT NUMBER ALPHA-NUMERIC CODE
84076	TSD MONITORING WELL TYPE ALPHA CODE
84077	TSD MONITORING WELL SAMPLING METHOD ALPHA CODE
84083	POLLUTION VERIFICATION ALPHA CODE
84084	WELL SAMPLE PURPOSE ALPHA CODE
84090	SAMPLE FILE CONTROL PROJECT IDENTIFICATION A-CODE
84091	INFILTRATION DATE/BEGINNING 'YYMMDD'

STORET Code	Description of STORET Administrative Parameters
84092	INFILTRATION DATE/ENDING 'YYMMDD'
84093	ENFORCEMENT FORM #2-C, DATA IDENTIFICATION CODE
84102	SAMPLE SPECIES-SUB ID ALPHA CODE
84103	DIOXIN LABORATORY ALPHA CODE
84104	DIOXIN STUDY ALPHA CODE
84112	SOURCE OF GEOHYDROLOGIC DATA CODE
84119	SOURCE OF EVACUATION DATA CODE
84121	REGULATING AGENCY CODE
84122	SAMPLE PURPOSE CODE
84126	SOURCE OF DEPTH DATA CODE
84127	METHOD OF DEPTH MEASUREMENT CODE
84128	SOURCE OF WATER-LEVEL DATA CODE
84129	DATA QUALITY
84141	LAKE, PHYSICAL CONDITION AT SAMPLE TIME, 1-5, CODE
84142	LAKE, RECREATIONAL SUITABILITY @ SMPL TIME, 1-5, CODE
84164	SAMPLER TYPE, CODE
85300	PROBLEM CODE NES SURVEY
85327	WATER LEVEL AT SAMPLE COLLECTION TIME-CODE-NES
85332	CLOUD COVER AT SAMPLE COLLECTION TIME-CODE-NES
85553	WELL COMPLETION DATE (MONTH/YEAR)
85554	WELL WORKOVER DATE, LATEST (MONTH/YEAR)

Appendix E

STORET Parameters Not Suitable for Statistical Analysis

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
00001	X-SEC. LOC., HORIZ (FT. FROM R BANK LOOK UPSTR.)
00002	X-SEC. LOC., HORIZ (% FROM R BANK LOOK UPSTR.)
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)
00005	X-SEC. LOC., VERTICAL (PERCENT OF TOTAL DEPTH)
00006	DISTANCE FROM LOCATION IN X MILES
00007	DISTANCE FROM LOCATION IN Y MILES
00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE
00009	X-SEC. LOC.(FT FROM LEFT BANK LOOKING DOWNSTRM)
00027	CODE NO FOR AGENCY COLLECTING SAMPLE
00028	CODE NO FOR AGENCY ANALYZING SAMPLE
00033	WEATHER CODE FOR OCEAN-OBSERV. (WMO CODE 4677)
00037	WIND FORCE (BEAUFORT UNITS)
00038	WIND DIRECTION (WMO CODES 0885 + 0887)
00041	WEATHER (WMO CODE 4501)
00042	ALTITUDE IN FEET ABOVE MEAN SEA LEVEL
00043	CLOUD TYPE (WMO CODE 0500)
00044	CLOUD AMOUNT (WMO CODE 2700)
00047	TOTAL PARTIAL PRESSURE DISSOLVED GASES (MM HG)
00048	TOTAL PARTIAL PRESSURE DISSOLVED GASES (% SAT)
00049	SURFACE AREA IN SQUARE MILES
00050	EVAPORATION, TOTAL (INCHES PER DAY)
00051	SURFACE AREA IN SQUARE FEET
00053	SURFACE AREA, ACRES
00054	RESERVOIR STORAGE - ACRE FEET
00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION
00067	TIDE STAGE

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
00069	SEA WAVES(0=NONE;1=0-3";2=4-20";3=21-48";4=4-8')
00097	SAMPLING STATION LOCATION, VERTICAL (FEET)
00098	SAMPLING STATION LOCATION, VERTICAL (METERS)
00111	RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI
00115	SAMPLE TREATMENT CODE (1=RAW,2=TREATED)
01300	OIL-GREASE (SEVERITY)
01305	DETERGENT SUDS (SEVERITY)
01310	GAS BUBBLES (SEVERITY)
01315	SLUDGE, FLOATING (SEVERITY)
01320	GARBAGE, FLOATING (SEVERITY)
01325	ALGAE, FLOATING MATS (SEVERITY)
01330	ODOR, ATMOSPHERIC (SEVERITY)
01331	TASTE (SEVERITY)
01335	SEWAGE SOLIDS, FRESH, FLOATING (SEVERITY)
01340	FISH, DEAD (SEVERITY)
01345	DEBRIS, FLOATING (SEVERITY)
01350	TURBIDITY (SEVERITY)
01351	FLOW, STRM,1DRY,2LOW,3NORM,4FLOOD,5ABOVE NORM,CODE
01355	ICE COVER, FLOATING OR SOLID (SEVERITY)
03595	BIOASSAY (96 HR), EFFLUENT, TOTAL CODE
03596	BIOASSAY (48 HR), EFFLUENT, TOTAL CODE
03597	BIOASSAY (24 HR), EFFLUENT, TOTAL CODE
03598	TOXICITY, EFFLUENT, TOTAL CODE
03599	TOXICITY, CHOICE OF SPECIES, EFFLUENT CODE
03600	TOXICITY, TROUT, EFFLUENT, TOTAL CODE
03601	TOXICITY, SAND DOLLAR, EFFLUENT CODE
03602	BIOCHEMICAL OXYGEN DEMAND, EFFLUENT, TOTAL CODE
03603	SOLIDS, TOTAL SUSPENDABLE, EFFLUENT, TOTAL CODE
03605	FLOW METER CALIBRATION, WATER CODE

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
03717	ONCORHYNCHUS MYKISS, WATER CODE
04117	TETHER LINE USED FOR COLLECTING SAMPLE CODE
04160	HALOCARBONS, PURGEABLE, SCAN, EFFLUENT CODE
04161	HALOCARBONS, PURGEABLE, SCAN, SLUDGE CODE
04162	AROMATIC, PURGEABLE, SCAN, EFFLUENT CODE
04163	AROMATIC, PURGEABLE, SCAN, SLUDGE CODE
04164	PHENOLIC, TOTAL, SCAN, EFFLUENT CODE
04165	PHENOLIC, TOTAL, SCAN, SLUDGE CODE
04166	PCB, TOTAL, SCAN, EFFLUENT CODE
04167	PCB, TOTAL, SCAN, SLUDGE CODE
04174	FREE LIQUIDS IN SEWAGE SLUDGE CODE
34765	AVIAN NUMERICAL SPECIES CODE (BIRDS)
34766	MAMMALIAN NUMERICAL SPECIES CODE
34771	MACROPHYTE, INSTREAM, VISUAL SIGHTING CODE
34773	ODOR, AMBIENT WATER CODE
34774	FISH, INSTREAM, VISUAL SIGHTING CODE
34775	STREAMBANK CHANNEL ALTERATIONS CODE
34776	HYDRAULIC STRUCTURES, INSTREAM CODE
34780	LAND USE, ADJACENT STREAM CODE
34781	SAMPLE POINTS, # OF LONGTDNL TRANSECTS, REACH CODE
34782	STREAM STAGE TREND CODE
34789	HABITATS, TYPES SAMPLED CODE
45613	FLOATING SOLIDS/VISIBLE FOAM, VISUAL, YES=1, NO=0, CODE
45614	SANITARY WASTE DISCHARGE ASSESSMENT, YES=1, NO=0, CODE
45615	INTERMITTENT DISCHARGE ASSESSMENT, YES=1, NO=0, CODE
46001	WATER APPEARANCE CODE (BASED ON FIELD ASSESSMENT)
46478	EQUIPMENT INSPECTION, VISUAL CODE
46486	TOXICITY, ACUTE 24HR (STATIC) CERIODAPHNIA (P/F) CODE
47454	FLOW METER REVOLUTIONS NUMBER

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
47455	LATITUDE, STARTING, OF A SAMPLE TOW DDMMS
47456	LONGITUDE, STARTING, OF A SAMPLE TOW DDDMMSS
47457	LATITUDE, FINISHING, OF A SAMPLE TOW DDMMS
47458	LONGITUDE, FINISHING, OF A SAMPLE TOW DDDMMSS
47459	LENGTH FREQUENCY NUMBER
47461	TIME THAT THE EQUIPMENT WAS SAMPLING MINUTES
47476	DIRECTION OF TOW IN RELATION TO CURRENT NUM CODE
50044	HYDROGRAPH LIMB, 1BASE, 2RISING, 3PEAK, 4FALLING, CODE
61390	DIATOMS,FIRST DOMINANT SPECIES OF UNITS - CODE
61391	DIATOMS,SECOND DOMINANT SPECIES OF UNITS - CODE
61392	DIATOMS,THIRD DOMINANT SPECIES OF UNITS - CODE
61393	DIATOMS,FOURTH DOMINANT SPECIES OF UNITS - CODE
70220	WAVE DIRECTION (WMO CODES 0885 + 0887)
70222	WAVE HEIGHT (WMO CODE 1555)
70223	WAVE PERIOD (WMO CODE 3155)
71090	BIVALVE SPECIES CODE
71500	EQUITABILITY INDEX,BENTHIC MACROINVER CODE
72000	ELEVATION OF LAND SURFACE DATUM (FT. ABOVE MSL)
72001	DEPTH, TOTAL OF HOLE (FT BELOW LAND SURFACE DATUM)
72002	DEPTH TO TOP OF WATER-BEARING ZONE SAMPLED (FT)
72003	DEPTH TO BOTTOM OF WATER-BEARING ZONE SAMPLED (FT)
72004	PUMP OR FLOW PERIOD PRIOR TO SAMPLING MINUTES
72005	SAMPLE SOURCE CODE (BM WELL DATA)
72006	SAMPLING CONDITION CODE (BM WELL DATA)
72007	FORMATION NAME CODE (BM WELL DATA)
72017	SERIES CODE (BM WELL DATA)
72018	SYSTEM CODE (BM WELL DATA)
72111	DIRECT READOUT GROUND STATN TRANSMIT ERROR CODE NUM
74054	FECAL STREPTOCOCCI, GENERAL (PERMIT)

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
74055	FECAL COLIFORM, GENERAL (PERMIT)
80889	ACTIVATED SLUDGE PROCESS MODIFICATION CODE
81024	DRAINAGE AREA IN SQUARE MILES (SQ. MI.)
81637	SHELLFISH SPECIES NUMERIC CODE
82289	LAGOON OBSERVATION, VISUAL, Y=YES N=NO CODE
82398	SAMPLING METHOD (CODES)
82524	STORAGE COEFFICIENT NUMERICAL CODE
82923	ATMOSPHERIC DEPOSITION TYPE, WET CODE
83205	ATMOSPHERIC DEPOSITION TYPE, BULK CODE
84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)
84001	AQUIFER NAME CODE (SEE USGS CATALOG)
84004	LAKE TYPE ILLINOIS CLASSIFICATION SYSTEM
84007	ANATOMY ALPHA CODE
84008	LIFE STYLE/HABITAT OF THE INDIVIDUALS IN THE SAMPLE
84009	SHELLFISH SPECIES ALPHANUMERIC CODE
84014	SPECIES SEX CODE
84030	CLOUD AMOUNT ALPHA WEATHER CODES
84031	PHYSICAL WEATHER ALPHA WEATHER CODES
84032	STREAM CONDITION ALPHA WEATHER CODES
84066	OIL AND GREASE, VISUAL, ALPHA-NUMERIC CODE
84068	SERIES CODE ALPHA-NUMERIC CODE
84069	FORMATION CODE ALPHA-NUMERIC CODE
84070	METHOD OF TESTING WELL YIELD ALPHA-NUMERIC CODE
84071	WATER LEVEL MEASUREMENT CONDITIONS ALPHA-NUM CODE
84072	WATER LEVEL MEASUREMENT METHOD ALPHA-NUMERIC CODE
84078	GIARDIA LAMBLIA, 2HSO4 OR SUC GRAD, MICRO, CODE
84079	BACTERIA, CELLUOLYTIC, AEROBIC-ANAEROBIC, RT 5-7, CODE
84080	BACTERIA, HYDROCARBONOCLASTIC, SHAKE INC 32C/WK, CODE
84081	YERSINIA ENTEROCOLITICA, SB BROTH, MAC AGAR,22C, CODE

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
84082	SALMONELLA/SHIGELLA, QUANT OR QUAL, HVF OR SWAB, CODE
84085	ORGANICS, VOLATILE, DETECTED, NUMERIC CODE, CODE
84086	MACROINVERTEBRATE SPECIES NUMERIC CODE
84087	MACROINVERTEBRATE HABITAT CODE
84088	BIOLOGY 1 MACROINVERTEBRATE CODE
84089	BIOLOGY 2 MACROINVERTEBRATE CODE
84094	PHYTOPLANKTON SPECIES CODE, NUMERIC
84095	PHYTOPLANKTON SPECIES CODE, ALPHA
84096	SEVERITY OF NON-PLANKTON ALGAE-MAT COVERAGE CODE
84097	LAGOON MOUTH CONDITION CODE
84098	COLOR OF NON-PLANKTONIC ALGAE CODE
84099	WATER - RELATIVE WATER LEVEL CODE
84100	SEX(1-MALE,2-FEMALE,3-MIXED,4-UNKNOWN) NUM CODE
84101	METAFORM, BENTHIC, ADULT(A), PUPAE(P), LARVAE(L) CODE
84105	OIL-SEPARATOR OBSERVATION ASSESS (0=DID NOT,1=DID)
84106	EVAPORAT/BED OBS ASSESS (0=DID NOT LOOK, 1=DID LOOK)
84107	AREA INSPECTION, VISUAL (0=DID NOT, 1=DID) CODE
84108	DRAIN FIELD INSPECTION ASSESS (0=DID NOT, 1=DID) CODE
84109	SLUDGE BUILD-UP IN WATER (0=DID NOT OBS, 1=OBS) CODE
84110	POND OBSERVATION ASSESS WATER (0=DID NOT, 1=DID) CODE
84111	LITHOLOGIC MODIFIER CODE
84113	WELL INTAKE FINISH CODE
84114	WELL CASING MATERIAL CODE
84115	TYPE OF MATERIAL FROM WHICH OPENING IS MADE CODE
84116	DRILLING FLUID CODE
84117	TYPE OF SURFACE SEAL CODE
84118	METHOD OF DEVELOPMENT CODE
84120	PACKING MATERIAL CODE
84124	METHOD OF EVACUTAION CODE

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
84125	METHOD OF WATER-LEVEL MEASUREMENT CODE
84130	OUTFALL OBSERVATION, VISUAL, Y=YES N=NO CODE
84131	SAMPLING METHOD, CONFIDENCE CODE (A,B,C,D) CODE
84132	STREAMBANK, VEGETATIVE STABILITY RATING CODE
84133	STREAMBANK, STABILITY (BANK EROSION) RATING CODE
84134	PARTICLES, DEGREE SURROUNDED BY FINE SEDIMENT, CODE
84135	STREAMSIDE, (SHORELINE) COVER RATING CODE
84136	CANOPY TYPE CODE
84137	CHANNEL STABILITY RATING CODE (E,G,F,P) CODE
84138	COLIFORM, TOTAL, WATER, WHOLE, MPN, PRES=1, ABSNT=2, CODE
84139	ENTEROBACTER AGGLOMERANS, WTR, MF, PRES=1, ABSNT=2, CODE
84140	KLEBSIELLA PNEUMONIAE, WTR, WH, MF, PRES=1, ABSNT=2, CODE
84143	WELL, PURGING CONDITION CODE
84144	WELL, SELECTION CRITERIA CODE
84145	PROJECT COMPONENT CODE
84146	LAND USE, PREDOMINANT, WITHIN 100 FT OF WELL, CODE
84147	LAND USE, PREDOMINANT, 1/4 MI.RADIUS OF WELL, CODE
84148	LAND USE, PREDMNT., FRAC., WITHIN 1/4 MI OF WELL, CODE
84149	LAND USE, CHANGE, LAST 10 YRS, WITHIN 1/4MI WELL, CODE
84150	HABITAT QUALITY INDEX RATING CODE
84151	AQUATIC LIFE, USE CLASSES CODE
84152	STREAM, STAGE CLASS CODE
84153	STREAMBANKS, GRAZING DAMAGE CODE
84154	CHANNEL, MAJOR ALTERATIONS CODE
84155	RIFFLE/RUNS, OCCURRENCE CODE
84156	POOL, DESCRIPTION CODE
84157	SANDBARS, LARGE, OCCURRENCE CODE
84158	LAND USE, NEAR STREAM, PREDOMINANT CODE
84159	STREAM,COVER (INSTREAM SHELTER FOR ADULT FISH), CODE

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
84160	STREAM, DEGRADATION RATING CODE
84161	STREAM, ORDER CODE
84162	LAND RESOURCE AREA CODE
84163	FLOW, STREAM, CLASSIFICATION CODE
84165	DISCHARGE EVENT OBSERVATION, YES=1 NO=0, CODE
84166	STORM HYDROGRAPH, DIRECTION, (RISE,FALL), CODE
84167	MICROSCOPIC EXAMINATION CODE
84168	AVIAN SPECIES ALPHA CODE (BIRDS)
84169	MAMMALIAN ALPHA SPECIES CODE
84170	ALPHA AGE TEXT CODE
84200	LATITUDE/LONGITUDE COORDINATES OF WELL, METHOD CODE
84201	NATIONAL REFERENCE DATUM, ALTITUDE(VERTICAL) CODE
84202	ALTITUDE METHOD CODE
85000	STREAM MILE, ACTUAL MILES
85014	HABITAT, 1970 ACRES THIS TYPE FOR THIS STATION
85015	HAB., ESTIMATED ACRES THIS TYPE THIS STATION
85016	HAB., ESTIMATED ACRES THIS TYPE THIS STA. BY 1990
85017	HAB., ESTIMATED ACRES THIS TYPE THIS STA. BY 2000
85018	TYPE CODES: 1=CLEAR CUT/2=SELECT CUT/3=RNGE DEVL P
85019	ACRES, NO. ALTERED FROM 1965-1970 (0-5 YEARS OLD)
85020	ACRES, NO. ALTERED 1960-1965 (5-10 YEARS OLD)
85021	ACRES, NO. ALTERED 1955-1960 (10-15 YEARS OLD)
85022	ACRES, NO. ALTERED 1950-1955 (15-20 YEARS OLD)
85023	ACRES, NO. ALTERED BEFORE 1950 (20+ YEARS OLD)
85024	ACRES,PREDICTED YRLY.AVE.TO BE ALTERED IN FUTURE
85025	LANDOWNERS, CODES FOR ALL IN STATE OF OREGON
85026	ACRES, CURRENT OWNED THIS LANDOWNER THIS STATION
85027	ACRES, ESTIMATED OWNED BY L-O THIS STA. BY 1980
85028	ACRES, ESTIMATED OWNED BY L-O THIS STA. BY 1990

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
85029	ACRES, ESTIMATED OWNED BY L-O THIS STA. BY 2000
85030	LAND USES, CODES FOR ALL IN STATE OF OREGON
85031	ACRES, CURRENT DEDICATED TO THIS USE THIS STATION
85032	ACRES, ESTM. DEDICTD TO THIS USE THIS STA BY 1980
85033	ACRES, ESTM. DEDICTD TO THIS USE THIS STA BY 1990
85034	ACRES, ESTM. DEDICTD TO THIS USE BY YR.2000 --STA.
85035	HAB., INDICATED ANIMAL USES THIS TYPE IN WINTER
85036	HAB., INDICATED ANIMAL USES THIS TYPE IN SPRING
85037	HAB., INDICATED ANIMAL USES THIS TYPE IN SUMMER
85038	HAB., INDICATED ANIMAL USES THIS TYPE IN FALL
85039	HAB., INDICATED ANML USES THIS TYPE FOR WINTERING
85040	HAB., INDICATED ANML USES THIS TYPE FOR FEEDING
85041	HAB., INDICATED ANML USES TYPE FOR REARING YOUNG
85042	HAB., INDICATED BIRD USES THIS TYPE FOR NESTING
85043	HAB., INDICATED ANML USES THIS TYPE FOR SHELTER
85044	HAB., INDICATED ANML USES THIS TYPE FOR REST AREA
85045	ANML, SHOWS PRESENCE/ABSNC OF COMMENTS ON THIS ANML
85046	HAB.,ACRES OCCUPIED BY THIS ANML THIS UNIT & CO.
85050	ANIMALS ARE NOT PRESENT THIS STATION
85051	ANIMALS, ONLY A FEW ARE PRESENT THIS STATION
85052	ANIMALS COMMONLY SEEN; USE MODERATE THIS STATION
85053	ANIMALS FREQUENTLY SEEN; USE HEAVY THIS STATION
85070	OWNERSHIP (.1) AND ACCESS (.2) BY YEAR
85071	PRIVATE OWNERSHIP AND ACCESS MILEAGE
85072	FEDERAL OWNERSHIP AND ACCESS MILEAGE
85073	STATE OWNERSHIP AND ACCESS MILEAGE
85074	COUNTY OWNERSHIP AND ACCESS MILEAGE
85075	CITY OWNERSHIP AND ACCESS MILEAGE
85076	WATER YEAR DATA REFERS TO

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
85077	CALENDAR YEAR DATA REFERS TO
85088	MONTHS POLLUTION IS A PROBLEM JAN THRU JUNE
85089	MONTHS POLLUTION IS A PROBLEM JULY TO DECEMBER
85090	MAN-CAUSED CHANNEL CHANGE IN MILES
85091	STREAM BANK HABITAT DESTROYED IN MILES
85092	STREAMBED SILTED IN MILES
85093	TURBIDITY PROBLEM IN MILES
85094	SEVERITY: 1=ELIMINATES 2=INTERFERES 3=NO PROBLEM
85095	DURATION OF TURBIDITY PROBLEM IN MONTHS
85096	SEASON OF NATURAL DRY CHANNEL 1=SP 2=SU 3=F 4=W
85097	NATURAL DRY CHANNEL IN MILES
85098	MAN-CAUSED DRY CHANNEL SEASON 1=SP 2=SU 3=F 4=W
85099	MAN-CAUSED DRY CHANNEL IN MILES
85100	YEAR BARRIER IS PRESENT
85101	NUMBER OF NATURAL BARRIERS
85102	MILES BLOCKED BY NATURAL BARRIERS
85103	NUMBER OF NATURAL BARRIERS TO BE REMOVED
85104	NUMBER OF DAMS AND MAN CAUSED OBSTRUCTIONS
85105	MILES BLOCKED BY DAMS OR MAN CAUSED OBSTRUCTIONS
85106	NUMBER OF DAMS TO BE ALTERED
85107	MILES OF STREAM OCCUPIED BY IMPOUNDMENT
85108	LOWER END OF SECTION COVERED BY THIS FORM
85109	UPPER END OF SECTION COVERED BY THIS FORM
85110	LOWER LIMIT THIS SPECIES THIS FORM BY RIVER MILE
85111	UPPER LIMIT THIS SPECIES THIS FORM BY RIVER MILE
85112	STREAM SURVEY: 1=COMPLETE 2=INCOMPLETE 3=NONE
85113	ABUNDANCE: 1=FSHWY/TAG&R 2=SURVEY 3=EST PLUS 4=EST
85114	ABUNDANCE: N=S&ST 1=ABUNDANT 4=SCARCE RGH FSH 3=SCARCE
85116	SQUARE YARDS OF SPAWNING AREA IN 1970

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
85117	SQUARE YARDS OF SPAWNING AREA IN 1980
85118	SQUARE YARDS OF SPAWNING AREA IN 1990
85119	SQUARE YARDS OF SPAWNING AREA IN 2000
85120	MILES OF REARING AREA IN 1970
85121	MILES OF REARING AREA IN 1980
85122	MILES OF REARING AREA IN 1990
85123	MILES OF REARING AREA IN 2000
85124	CATCH BY SPORT ANGLING IN 1970
85125	RECREATION DAYS SPENT ANGLING IN 1970
85126	RECREATION DAYS SPENT ANGLING IN 1980
85127	RECREATION DAYS SPENT ANGLING IN 1990
85128	RECREATION DAYS SPENT ANGLING IN 2000
85129	CONTRIBUTION TO COMMERCIAL CATCH IN 1970
85130	PERCENT OF TOTAL FISHING DONE FROM BOAT IN 1970
85131	PERCENT OF TOTAL FISHING DONE FROM BANK IN 1970
85132	PERCENT OF TOTAL FISHING DONE WITH LURE IN 1970
85133	PERCENT OF TOTAL FISHING DONE WITH BAIT IN 1970
85134	PERCENT OF TOTAL FISHING DONE WITH A FLY IN 1970
85146	YEAR THIS FACTOR HAS A LIMITING EFFECT
85157	MAN DAYS OF WATER SKIING
85158	SEVERITY: 1=INTERFERES 2=NO INTER. 3=NO ACTIVITY
85159	MAN DAYS OF BOATING OTHER THAN ANGLING
85160	SEVERITY: 1=INTERFERES 2=NO INTER. 3=NO ACTIVITY
85161	MAN DAYS OF SWIMMING
85162	SEVERITY: 1=INTERFERES 2=NO INTER. 3=NO ACTIVITY
85163	SEVERITY: 1=INTERFERES 2=NO INTER. 3=NOT PRESENT
85165	NUMBER OF MONTHS SUSPENDED SOLIDS ARE A PROBLEM
85167	NUMBER OF MONTHS PLANKTON IS A PROBLEM
85168	1=ELIMINATE PROD 2=REDUCE 3=NO INTER. 4=NOT PRES

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
85169	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85170	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85171	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85172	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85173	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85174	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85175	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85176	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85177	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85178	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85179	YEAR THIS NUMBER OF FACILITIES PRESENT
85180	NUMBER OF BOAT RAMPS
85181	NUMBER OF MOORAGES
85182	NUMBER OF PICNIC AREAS
85183	NUMBER OF CAMP AREAS
85184	NUMBER OF RESORTS
85185	YEAR THIS ZONED AREA PRESENT
85186	ACRES SET ASIDE FOR OTHER BOATING
85187	ACRES SET ASIDE FOR WATER SKIING
85188	MILES OF SHORE LOST TO ACCESS BY HOME SITES
85189	TOTAL MILES OF SHORELINE
85193	WILL RECR BE INC BY RELEASE OF FINGERL 0=NO 1=YES
85195	CATCH AND RECREATION ESTIMATE 1=BEST 4=POOREST
85333	PRECIPITATION-SAMPLE COLLECTION TIME-CODE- NES
85538	GAMMA SCAN DATE (YR,MO,DAY)
85539	DATE OF REPORT (YR,MO,DAY)
85658	TIME NIGHT CO2 HR
85661	TIME, INTERVAL DAY CO2 HR

Appendix F

National EPA Water Quality Criteria Summary¹

The following table presents the national water quality criteria that were used to assess water quality data on a station-by-station basis and within the entire study area. Criteria are, for the most part, maximum values (except for dissolved oxygen, pH, and as noted). Criteria exist in any of four categories: Fresh Acute, Drinking Water, Marine Acute, and Other. Acute criteria are the highest 1-hour average concentrations which should not result in unacceptable impacts to aquatic organisms in either fresh or marine waters, respectively. The Drinking Water criteria are intended for human consumption; while the Other criteria represents National Park Service or other concerns. Parameters are listed in ascending order by STORET code. It is important to note that similar parameters often have non-consecutive codes. Consequently, scanning the entire list is necessary to obtain the criteria for all parameters of a particular type (eg. lead, copper, etc.). Refer to the Parameter Period of Record Tabulation to obtain the STORET code for any parameter measured in the park.

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
	00070				50 ^l	TURBIDITY, JACKSON CANDLE UNITS	JTU	Physical
	00076				50 ^l	TURBIDITY, HACH TURBIDIMETER, FORMAZIN TUR. UNITS	FTU	Physical
14808798	00154		250 ^s			SULFATE (AS S) WHOLE WATER	MG/L	General Inorganic
7782447	00299				4.0 ^u	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	MG/L	Dissolved Oxygen
7782447	00300				4.0 ^u	OXYGEN, DISSOLVED	MG/L	Dissolved Oxygen
	00400				≤6.5, ≥9.0 [#]	PH	SU	Physical
	00403				≤6.5, ≥9.0 [#]	PH, LAB	SU	Physical
	00406				≤6.5, ≥9.0 [#]	PH, FIELD	SU	Physical

¹Sources: (1) U.S. Environmental Protection Agency, Quality Criteria for Water 1995, Final Draft; (2) U.S. Environmental Protection Agency, 40 CFR 141 - National Primary Drinking Water Regulations, and 40 CFR 143 - National Secondary Drinking Water Regulations, July 1, 1994; and (3) Others as Noted in Footnotes.

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
471341	00409				<200"	ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYSIS	UEQ/L	General Inorganic
17778880	00613		1			NITRITE NITROGEN, DISSOLVED AS N	MG/L	Nitrogen
17778880	00615		1			NITRITE NITROGEN, TOTAL AS N	MG/L	Nitrogen
17778880	00618		10			NITRATE NITROGEN, DISSOLVED AS N	MG/L	Nitrogen
17778880	00620		10			NITRATE NITROGEN, TOTAL AS N	MG/L	Nitrogen
17778880	00628		10			NITRITE + NITRATE, SUSPENDED AS N	MG/L	Nitrogen
17778880	00630		10			NITRITE PLUS NITRATE, TOTAL 1 DET.	MG/L	Nitrogen
17778880	00631		10			NITRITE PLUS NITRATE, DISSOLVED 1 DET.	MG/L	Nitrogen
57125	00718	22	200	1.0		CYANIDE, WEAK ACID, DISSOCIABLE, WATER, WHOLE	UG/L	General Inorganic
57125	00719	22	200	1.0		CYANIDE, FREE,IN WATER&WASTEWATERS, HBG METHOD	UG/L	General Inorganic
57125	00720	0.022	0.2	0.001		CYANIDE, TOTAL	MG/L	General Inorganic
57125	00722	0.022	0.2	0.001		CYANIDE, FREE (AMENABLE TO CHLORINATION)	MG/L	General Inorganic
57125	00723	22	200	1.0		CYANIDE, DISSOLVED STD METHOD	UG/L	General Inorganic
57125	00724	22	200	1.0		CYANIDE COMPLEXED TO A RANGE OF COMPNDS, WATER	UG/L	General Inorganic
16887006	00940	860	250 ⁸			CHLORIDE,TOTAL IN WATER	MG/L	General Inorganic
16887006	00941	860	250 ⁸			CHLORIDE, DISSOLVED IN WATER	MG/L	General Inorganic
14808798	00945		250 ⁸			SULFATE, TOTAL (AS SO4)	MG/L	General Inorganic
14808798	00946		250 ⁸			SULFATE, DISSOLVED (AS SO4)	MG/L	General Inorganic
1332214	00948		7000000			ASBESTOS, WHOLE SAMPLE	CNT/L	General Inorganic
16984488	00950		4.0			FLUORIDE, DISSOLVED AS F	MG/L	General Inorganic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
16984488	00951		4.0			FLUORIDE, TOTAL AS F	MG/L	General Inorganic
7782414	00953		4000			FLUORINE, TOTAL	UG/L	General Inorganic
7440382	00978	360	50	69		ARSENIC, TOTAL RECOVERABLE IN WATER AS AS	UG/L	Metal
7782492	00981	20	50	300		SELENIUM, TOTAL RECOVERABLE IN WATER AS SE	UG/L	Metal
7440280	00982	1400*	2.0	2130*		THALLIUM, TOTAL RECOVERABLE IN WATER AS TL	UG/L	Metal
7782492	00990	20	50	300		SELENITE, TOTAL RECOVERABLE INORGANIC	UG/L	Metal
7440382	00991	360	50	69		ARSENIC, TOTAL RECOVERABLE TRIVALENT INORGANIC	UG/L	Metal
7440382	00995	360	50	69		ARSENIC, INORGANIC DISS	UG/L	Metal
7440382	00996	360	50	69		ARSENIC, INORGANIC SUSP	UG/L	Metal
7440382	00997	360	50	69		ARSENIC, INORGANIC TOT	UG/L	Metal
7440417	00998	130*	4.0			BERYLLIUM, TOTAL RECOVERABLE IN WATER AS BE	UG/L	Metal
7440382	01000	360	50	69		ARSENIC, DISSOLVED	UG/L	Metal
7440382	01001	360	50	69		ARSENIC, SUSPENDED	UG/L	Metal
7440382	01002	360	50	69		ARSENIC, TOTAL	UG/L	Metal
7440393	01005		2000			BARIUM, DISSOLVED	UG/L	Metal
7440393	01006		2000			BARIUM, SUSPENDED	UG/L	Metal
7440393	01007		2000			BARIUM, TOTAL	UG/L	Metal
7440393	01009		2000			BARIUM, TOTAL RECOVERABLE IN WATER AS BA	UG/L	Metal
7440417	01010	130*	4.0			BERYLLIUM, DISSOLVED	UG/L	Metal
7440417	01011	130*	4.0			BERYLLIUM, SUSPENDED	UG/L	Metal

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7440417	01012	130 ⁺	4.0			BERYLLIUM, TOTAL	UG/L	Metal
7440439	01025	3.9 ⁺	5.0	43		CADMIUM, DISSOLVED	UG/L	Metal
7440439	01026	3.9 ⁺	5.0	43		CADMIUM, SUSPENDED	UG/L	Metal
7440439	01027	3.9 ⁺	5.0	43		CADMIUM, TOTAL	UG/L	Metal
7440473	01030		100			CHROMIUM, DISSOLVED	UG/L	Metal
7440473	01031		100			CHROMIUM, SUSPENDED	UG/L	Metal
7440473	01032	16	100	1100		CHROMIUM, HEXAVALENT	UG/L	Metal
16065831	01033	1700 ⁺	100	10300 ⁺		CHROMIUM, TRI-VAL	UG/L	Metal
7440473	01034		100			CHROMIUM, TOTAL	UG/L	Metal
7440508	01040	18 ⁺	1300 ^a	2.9		COPPER, DISSOLVED	UG/L	Metal
7440508	01041	18 ⁺	1300 ^a	2.9		COPPER, SUSPENDED	UG/L	Metal
7440508	01042	18 ⁺	1300 ^a	2.9		COPPER, TOTAL	UG/L	Metal
7439921	01049	82 ⁺	15 ^a	220		LEAD, DISSOLVED	UG/L	Metal
7439921	01050	82 ⁺	15 ^a	220		LEAD, SUSPENDED	UG/L	Metal
7439921	01051	82 ⁺	15 ^a	220		LEAD, TOTAL	UG/L	Metal
7440280	01057	1400 ⁺	2.0	2130 ⁺		THALLIUM, DISSOLVED	UG/L	Metal
7440280	01058	1400 ⁺	2.0	2130 ⁺		THALLIUM, SUSPENDED	UG/L	Metal
7440280	01059	1400 ⁺	2.0	2130 ⁺		THALLIUM, TOTAL	UG/L	Metal
7440020	01065	1400 ⁺	100	75		NICKEL, DISSOLVED	UG/L	Metal
7440020	01066	1400 ⁺	100	75		NICKEL, SUSPENDED	UG/L	Metal

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7440020	01067	1400 ⁺	100	75		NICKEL, TOTAL	UG/L	Metal
7440020	01074	1400 ⁺	100	75		NICKEL, TOTAL RECOVERABLE IN WATER AS NI	UG/L	Metal
7440224	01075	4.1 ⁺	100 ^s	0.12		SILVER, DISSOLVED	UG/L	Metal
7440224	01076	4.1 ⁺	100 ^s	0.12		SILVER, SUSPENDED	UG/L	Metal
7440224	01077	4.1 ⁺	100 ^s	0.12		SILVER, TOTAL	UG/L	Metal
7440224	01079	4.1 ⁺	100 ^s	0.12		SILVER, TOTAL RECOVERABLE IN WATER AS AG	UG/L	Metal
7440508	01089	0.018 ⁺	1.3 ^a	0.0029		COPPER AS SUSPENDED BLACK OXIDE IN WATER	MG/L	General Inorganic
7440666	01090	120 ⁺	5000 ^s	95		ZINC, DISSOLVED	UG/L	Metal
7440666	01091	120 ⁺	5000 ^s	95		ZINC, SUSPENDED	UG/L	Metal
7440666	01092	120 ⁺	5000 ^s	95		ZINC, TOTAL	UG/L	Metal
7440666	01094	120 ⁺	5000 ^s	95		ZINC, TOTAL RECOVERABLE IN WATER AS ZN	UG/L	Metal
7440360	01095	88 ^p	6.0	1500 ^p		ANTIMONY, DISSOLVED	UG/L	Metal
7440360	01096	88 ^p	6.0	1500 ^p		ANTIMONY, SUSPENDED	UG/L	Metal
7440360	01097	88 ^p	6.0	1500 ^p		ANTIMONY, TOTAL	UG/L	Metal
7440439	01113	3.9 ⁺	5.0	43		CADMIUM, TOTAL RECOVERABLE IN WATER AS CD	UG/L	Metal
7439921	01114	82 ⁺	15 ^a	220		LEAD, TOTAL RECOVERABLE IN WATER AS PB	UG/L	Metal
7440473	01118		100			CHROMIUM TOTAL RECOVERABLE IN WATER AS CR	UG/L	Metal
7440508	01119	18 ⁺	1300 ^a	2.9		COPPER, TOTAL RECOVERABLE IN WATER AS CU	UG/L	Metal
7440280	01124	1400 [*]	2.0	2130 [*]		THALLIUM, ACID SOLUBLE, WATER, WHOLE	UG/L	Metal
7440280	01128	1400 [*]	2.0	2130 [*]		THALLIUM, TOTAL RECOVERABLE <95%	UG/L	Metal

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7782492	01145	20	50	300		SELENIUM, DISSOLVED	UG/L	Metal
7782492	01146	20	50	300		SELENIUM, SUSPENDED	UG/L	Metal
7782492	01147	20	50	300		SELENIUM, TOTAL	UG/L	Metal
7782492	01167	20	50	300		SELENIUM, ACID SOLUBLE, WATER, WHOLE	UG/L	Metal
18540299	01220	16	100	1100		CHROMIUM, HEXAVALENT, DISSOLVED	UG/L	Metal
7440360	01268	88 ^p	6.0	1500 ^p		ANTIMONY (SB), WATER, TOTAL RECOVERABLE	UG/L	Metal
57125	01291	22	200	1.0		CYANIDE, FILTERABLE, TOTAL IN WATER	UG/L	General Inorganic
7440666	01303	0.120 ⁺	5.0 ^s	0.095		ZINC, POTENTIALLY DISSOLVED WATER	MG/L	Metal
7440224	01304	0.0041 ⁺	0.1 ^s	0.00012		SILVER, POTENTIALLY DISSOLVED WATER	MG/L	Metal
7440508	01306	0.018 ⁺	1.3 ^a	0.0029		COPPER, POTENTIALLY DISSOLVED WATER	MG/L	Metal
18540299	01307	0.016	0.1	1.1		CHROMIUM, HEXAVALENT, POTENTIALLY DISSOLVED	MG/L	Metal
7440382	01309	0.36	0.05	0.069		ARSENIC, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7440393	01311		2.0			BARIUM, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7440417	01312	0.13 [*]	0.004			BERYLLIUM, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7440439	01313	0.0039 ⁺	0.005	0.043		CADMIUM, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
16065831	01314	1.7 ⁺	0.1	10.3 [*]		CHROMIUM, TRIVALENT, POTENTIALLY DISSOLVED	MG/L	Metal
7439921	01318	0.082 ⁺	0.015 ^a	0.220		LEAD, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7439976	01321	0.0024	0.002	0.0021		MERCURY, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7440020	01322	1.4 ⁺	0.1	0.075		NICKEL, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7782492	01323	0.020	0.050	0.300		SELENIUM, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7440280	01324	1.4 ⁺	0.002	2.13 ⁺		THALLIUM, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7440611	01326		0.020 ^c			URANIUM, POTENTIALLY DISSOLVED, WATER	MG/L	Metal
7440224	01523	4.1 ⁺	100 ^s	0.12		SILVER, IONIC	UG/L	Metal
50328	03648		0.2			BENZO (A) PYRENE, LIQUID FRACTION, ELUTRIATE	UG/L	General Organic
122349	04035		4.0			SIMAZINE, DISSOLVED, WATER, TOTAL RECOVERABLE	UG/L	Pesticide
10028178	04124		20 ^r			TRITIUM, TOTAL, WATER	PC/ML	Radiological
10028178	07000		20000 ^r			TRITIUM, TOTAL	PC/L	Radiological
10028178	07005		20000 ^r			TRITIUM, DISSOLVED	PC/L	Radiological
10028178	07010		20000 ^r			TRITIUM, SUSPENDED	PC/L	Radiological
	09501		5.0			RADIUM 226, TOTAL	PC/L	Radiological
	09503		5.0			RADIUM 226, DISSOLVED	PC/L	Radiological
	09505		5.0			RADIUM 226, SUSPENDED	PC/L	Radiological
	11500		5.0			RADIUM 226 + RADIUM 228, DISSOLVED	PC/L	Radiological
	11501		5.0			RADIUM 228, TOTAL	PC/L	Radiological
	11503		5.0			RADIUM 226 + RADIUM 228, TOTAL	PC/L	Radiological
10098972	13501		8.0 ^r			STRONTIUM 90, TOTAL	PC/L	Radiological
10098972	13503		8.0 ^r			STRONTIUM 90, DISSOLVED	PC/L	Radiological
10098972	13505		8.0 ^r			STRONTIUM 90, SUSPENDED	PC/L	Radiological
7782492	22675	20	50	300		SELENIUM, DISSOLVED ORGANIC	UG/L	Metal
7782492	22676	20	50	300		SELENIUM, HEXAVALENT, DISSOLVED	UG/L	Metal

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7782492	22677	20	50	300		SELENIUM, TETRAVALENT, DISSOLVED	UG/L	Metal
7440382	22678	360	50	69		ARSENIC, DISSOLVED ORGANIC	UG/L	Metal
7440382	22679	850*	50	2319*		ARSENIC, PENTAVALENT, DISSOLVED	UG/L	Metal
7440382	22680	360	50	69		ARSENIC, TRIVALENT, DISSOLVED	UG/L	Metal
7440611	22703		20°			URANIUM, NATURAL DISSOLVED	UG/L	Metal
7440611	22705		20°			URANIUM, NATURAL SUSPENDED	UG/L	Metal
7440611	22706		20°			URANIUM, TOTAL AS U308	UG/L	Metal
7440611	22708		0.020°			URANIUM, NATURAL, TOTAL	MG/L	Radiological
7440611	28011		20°			URANIUM, NATURAL, TOTAL	UG/L	Radiological
88857	30191		7.0			DINOSEB, WATER, WHOLE RECOVERABLE	UG/L	Pesticide
75990	30200		200			DALAPON, WATER, WHOLE RECOVERABLE	UG/L	Pesticide
106934	30203		0.05			ETHANE, 1,2-DIBROMO-, WATER, WHOLE, RECOVERABLE	UG/L	Pesticide
	31501		1.0 ⁿ		1000 ^b	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	CFU/100ML	Bacteriological
	31503		1.0 ⁿ		1000 ^b	COLIFORM, TOTAL, MEMBRANE FILTER, DELAY. M-ENDO	CFU/100ML	Bacteriological
	31504		1.0 ⁿ		1000 ^b	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED. LES-ENDO	CFU/100ML	Bacteriological
	31505		1.0 ⁿ		1000 ^b	COLIFORM, TOTAL, MPN, CONF. TEST 35C (TUBE 31506)	MPN/100ML	Bacteriological
	31506		1.0 ⁿ		1000 ^b	COLIFORM, TOTAL, MPN, CONF. TEST, TUBE CONFIG	MPN/100ML	Bacteriological
	31507		1.0 ⁿ		1000 ^b	COLIFORM, TOTAL, MPN, COMP. TEST 35C (TUBE 31508)	MPN/100ML	Bacteriological
	31508		1.0 ⁿ		1000 ^b	COLIFORM, TOTAL, MPN, COMP. TEST, TUBE CONFIG	MPN/100ML	Bacteriological
	31613				200 [^]	FECAL COLIFORM, MEMBRANE FILTER, AGAR	CFU/100ML	Bacteriological

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
	31614				200 [^]	FECAL COLIFORM, MPN, TUBE CONFIGURATION	MPN/100ML	Bacteriological
	31615				200 [^]	FECAL COLIFORM, MPN, EC MED, 44.5C (TUBE 31614)	MPN/100ML	Bacteriological
	31616				200 [^]	FECAL COLIFORM, MEMBRANE FILTER, BROTH, 44.5C	CFU/100ML	Bacteriological
	31617				200 [^]	FECAL COLIFORM, MPN, EIJMAN, 44.5C (TUBE 31618)	MPN/100ML	Bacteriological
	31625				200 [^]	FECAL COLIFORM, MF, M-FC, 0.7 UM	CFU/100ML	Bacteriological
	31648				126 [^]	E. COLI, MTEC, MF	CFU/100ML	Bacteriological
	31649				33 [^]	ENTEROCOCCI, ME, MF	CFU/100ML	Bacteriological
67663	32003	28900*	100 ⁱ			CARBON CHLOROFORM AND CARBON ALCOHOL EXTRS.,TOTAL	UG/L	General Organic
67663	32005	28900*	100 ⁱ			CARBON CHLOROFORM EXTRACTABLES	UG/L	General Organic
67663	32021	28900*	100 ⁱ			CARBON CHLOROFORM EXTRACTS, ETHER INSOLUBLES OF	UG/L	General Organic
67663	32022	28900*	100 ⁱ			CARBON CHLOROFORM EXTRACTS, WATER SOLUBLES OF	UG/L	General Organic
75274	32101		100 ⁱ			BROMODICHLOROMETHANE, WHOLE WATER	UG/L	General Organic
56235	32102	35200*	5.0	50000*		CARBON TETRACHLORIDE, WHOLE WATER	UG/L	General Organic
107062	32103	118000*	5.0	113000*		1,2-DICHLOROETHANE,WHOLE WATER	UG/L	General Organic
75252	32104		100 ⁱ			BROMOFORM, WHOLE WATER	UG/L	General Organic
124481	32105		100 ⁱ			DIBROMOCHLOROMETHANE, WHOLE WATER	UG/L	General Organic
67663	32106	28900*	100 ⁱ			CHLOROFORM, WHOLE WATER	UG/L	General Organic
56235	32260	35.2*	0.005	50*		CARBON TETRACHLORIDE EXTRACTABLES	MG/L	General Organic
67663	32270	28.9*	0.1 ⁱ			CHLOROFORM EXTRACTABLES TOTAL	MG/L	General Organic
108883	34010	17500*	1000	6300*		TOLUENE IN WTR SMPLE GC-MS, HEXADECONE EXTR.	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
1330207	34020		10000			XYLENES IN WTR SMPLE GC-MS, HEXADECONE EXTR.	UG/L	General Organic
83329	34205	1700*		970*		ACENAPHTHENE, TOTAL	UG/L	General Organic
83329	34206	1700*		970*		ACENAPHTHENE, DISSOLVED	UG/L	General Organic
83329	34207	1700*		970*		ACENAPHTHENE, SUSPENDED	UG/L	General Organic
107028	34210	68*		55*		ACROLEIN, TOTAL	UG/L	Pesticide
107028	34211	68*		55*		ACROLEIN, DISSOLVED	UG/L	Pesticide
107028	34212	68*		55*		ACROLEIN, SUSPENDED	UG/L	Pesticide
107131	34215	7550*				ACRYLONITRILE, TOTAL	UG/L	General Organic
107131	34216	7550*				ACRYLONITRILE, DISSOLVED	UG/L	General Organic
107131	34217	7550*				ACRYLONITRILE, SUSPENDED	UG/L	General Organic
71432	34235	5300*	5.0	5100*		BENZENE, DISSOLVED	UG/L	General Organic
71432	34236	5300*	5.0	5100*		BENZENE, SUSPENDED	UG/L	General Organic
92875	34239	2500*				BENZIDINE, DISSOLVED	UG/L	General Organic
92875	34240	2500*				BENZIDINE, SUSPENDED	UG/L	General Organic
58899	34265	2.0	0.2	0.16		R-BHC (LINDANE) GAMMA, DISSOLVED	UG/L	Pesticide
58899	34266	2.0	0.2	0.16		R-BHC (LINDANE) GAMMA, SUSPENDED	UG/L	Pesticide
75252	34288		100 ⁱ			BROMOFORM, DISSOLVED	UG/L	General Organic
75252	34289		100 ⁱ			BROMOFORM, SUSPENDED	UG/L	General Organic
56235	34297	35200*	5.0	50000*		CARBON TETRACHLORIDE, DISSOLVED	UG/L	General Organic
56235	34298	35200*	5.0	50000*		CARBON TETRACHLORIDE, SUSPENDED	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
108907	34301		100			CHLOROBENZENE, TOTAL	UG/L	General Organic
108907	34302		100			CHLOROBENZENE, DISSOLVED	UG/L	General Organic
108907	34303		100			CHLOROBENZENE, SUSPENDED	UG/L	General Organic
124481	34306		100 ⁱ			CHLORODIBROMOMETHANE, TOTAL	UG/L	General Organic
124481	34307		100 ⁱ			CHLORODIBROMOMETHANE, DISSOLVED	UG/L	General Organic
124481	34308		100 ⁱ			CHLORODIBROMOMETHANE, SUSPENDED	UG/L	General Organic
67663	34316	28900*	100 ⁱ			CHLOROFORM, DISSOLVED	UG/L	General Organic
67663	34317	28900*	100 ⁱ			CHLOROFORM, SUSPENDED	UG/L	General Organic
57125	34325	0.022	0.2	0.001		CYANIDE, SUSPENDED	MG/L	General Inorganic
75274	34328		100 ⁱ			DICHLOROBROMOMETHANE, DISSOLVED	UG/L	General Organic
75274	34329		100 ⁱ			DICHLOROBROMOMETHANE, SUSPENDED	UG/L	General Organic
122667	34346	270*				1,2-DIPHENYLHYDRAZINE, TOTAL	UG/L	General Organic
122667	34347	270*				1,2-DIPHENYLHYDRAZINE, DISSOLVED	UG/L	General Organic
122667	34348	270*				1,2-DIPHENYLHYDRAZINE, SUSPENDED	UG/L	General Organic
33213659	34356	0.22		0.034		ENDOSULFAN, BETA, TOTAL	UG/L	Pesticide
33213659	34357	0.22		0.034		ENDOSULFAN, BETA, DISSOLVED	UG/L	Pesticide
33213659	34358	0.22		0.034		ENDOSULFAN, BETA, SUSPENDED	UG/L	Pesticide
959988	34361	0.22		0.034		ENDOSULFAN, ALPHA, TOTAL	UG/L	Pesticide
959988	34362	0.22		0.034		ENDOSULFAN, ALPHA, DISSOLVED	UG/L	Pesticide
959988	34363	0.22		0.034		ENDOSULFAN, ALPHA, SUSPENDED	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
100414	34371	32000*	700	430*		ETHYLBENZENE, TOTAL	UG/L	General Organic
100414	34372	32000*	700	430*		ETHYLBENZENE, DISSOLVED	UG/L	General Organic
100414	34373	32000*	700	430*		ETHYLBENZENE, SUSPENDED	UG/L	General Organic
206440	34376	3980*		40*		FLUORANTHENE, TOTAL	UG/L	General Organic
206440	34377	3980*		40*		FLUORANTHENE, DISSOLVED	UG/L	General Organic
206440	34378	3980*		40*		FLUORANTHENE, SUSPENDED	UG/L	General Organic
77474	34386	7.0*	50	7.0*		HEXACHLOROCYCLOPENTADIENE, TOTAL	UG/L	General Organic
77474	34387	7.0*	50	7.0*		HEXACHLOROCYCLOPENTADIENE, DISSOLVED	UG/L	General Organic
77474	34388	7.0*	50	7.0*		HEXACHLOROCYCLOPENTADIENE, SUSPENDED	UG/L	General Organic
87683	34391	90*		32*		HEXACHLOROBUTADIENE, TOTAL	UG/L	General Organic
87683	34392	90*		32*		HEXACHLOROBUTADIENE, DISSOLVED	UG/L	General Organic
87683	34393	90*		32*		HEXACHLOROBUTADIENE, SUSPENDED	UG/L	General Organic
67721	34396	980*		940*		HEXACHLOROETHANE, TOTAL	UG/L	General Organic
67721	34397	980*		940*		HEXACHLOROETHANE, DISSOLVED	UG/L	General Organic
67721	34398	980*		940*		HEXACHLOROETHANE, SUSPENDED	UG/L	General Organic
118741	34401	6.0 ^P	1.0			HEXACHLOROBENZENE, DISSOLVED	UG/L	General Organic
118741	34402	6.0 ^P	1.0			HEXACHLOROBENZENE, SUSPENDED	UG/L	General Organic
193395	34403		0.40 ^c			INDENO (1,2,3-CD) PYRENE, TOTAL	UG/L	General Organic
193395	34404		0.40 ^c			INDENO (1,2,3-CD) PYRENE, DISSOLVED	UG/L	General Organic
193395	34405		0.40 ^c			INDENO (1,2,3-CD) PYRENE, SUSPENDED	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
78591	34408	117000*		12900*		ISOPHORONE, TOTAL	UG/L	Pesticide
78591	34409	117000*		12900*		ISOPHORONE, DISSOLVED	UG/L	Pesticide
78591	34410	117000*		12900*		ISOPHORONE, SUSPENDED	UG/L	Pesticide
75092	34423		5.0			METHYLENE CHLORIDE, TOTAL	UG/L	General Organic
75092	34424		5.0			METHYLENE CHLORIDE, DISSOLVED	UG/L	General Organic
75092	34425		5.0			METHYLENE CHLORIDE, SUSPENDED	UG/L	General Organic
91203	34443	2300*		2350*		NAPHTHALENE, DISSOLVED	UG/L	General Organic
91203	34444	2300*		2350*		NAPHTHALENE, SUSPENDED	UG/L	General Organic
98953	34447	27000*		6680*		NITROBENZENE, TOTAL	UG/L	General Organic
98953	34448	27000*		6680*		NITROBENZENE, DISSOLVED	UG/L	General Organic
98953	34449	27000*		6680*		NITROBENZENE, SUSPENDED	UG/L	General Organic
59507	34452	30*				PARACHLOROMETA CRESOL, TOTAL	UG/L	General Organic
59507	34453	30*				PARACHLOROMETA CRESOL, DISSOLVED	UG/L	General Organic
59507	34454	30*				PARACHLOROMETA CRESOL, SUSPENDED	UG/L	General Organic
87865	34459	20***	1.0	13		PCP (PENTACHLOROPHENOL), DISSOLVED	UG/L	Pesticide
87865	34460	20***	1.0	13		PCP (PENTACHLOROPHENOL), SUSPENDED	UG/L	Pesticide
85018	34461	30 ^P		7.7 ^P		PHENANTHRENE, TOTAL	UG/L	General Organic
85018	34462	30 ^P		7.7 ^P		PHENANTHRENE, DISSOLVED	UG/L	General Organic
85018	34463	30 ^P		7.7 ^P		PHENANTHRENE, SUSPENDED	UG/L	General Organic
108952	34466	10200*		5800*		PHENOL, DISSOLVED	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
108952	34467	10200*		5800*		PHENOL, SUSPENDED	UG/L	General Organic
127184	34475	5280*	5.0	10200*		TETRACHLOROETHYLENE, TOTAL	UG/L	General Organic
127184	34476	5280*	5.0	10200*		TETRACHLOROETHYLENE, DISSOLVED	UG/L	General Organic
127184	34477	5280*	5.0	10200*		TETRACHLOROETHYLENE, SUSPENDED	UG/L	General Organic
108883	34481	17500*	1000	6300*		TOLUENE, DISSOLVED	UG/L	General Organic
108883	34482	17500*	1000	6300*		TOLUENE, SUSPENDED	UG/L	General Organic
79016	34485	45000*	5.0	2000*		TRICHLOROETHYLENE, DISSOLVED	UG/L	General Organic
79016	34486	45000*	5.0	2000*		TRICHLOROETHYLENE, SUSPENDED	UG/L	General Organic
75014	34493		2.0			VINYL CHLORIDE, DISSOLVED	UG/L	General Organic
75014	34494		2.0			VINYL CHLORIDE, SUSPENDED	UG/L	General Organic
75354	34501		7.0			1,1-DICHLOROETHYLENE, TOTAL	UG/L	General Organic
75354	34502		7.0			1,1-DICHLOROETHYLENE, DISSOLVED	UG/L	General Organic
75354	34503		7.0			1,1-DICHLOROETHYLENE, SUSPENDED	UG/L	General Organic
71556	34506		200	31200*		1,1,1-TRICHLOROETHANE, TOTAL	UG/L	General Organic
71556	34507		200	31200*		1,1,1-TRICHLOROETHANE, DISSOLVED	UG/L	General Organic
71556	34508		200	31200*		1,1,1-TRICHLOROETHANE, SUSPENDED	UG/L	General Organic
79005	34511		5.0			1,1,2-TRICHLOROETHANE, TOTAL	UG/L	General Organic
79005	34512		5.0			1,1,2-TRICHLOROETHANE, DISSOLVED	UG/L	General Organic
79005	34513		5.0			1,1,2-TRICHLOROETHANE, SUSPENDED	UG/L	General Organic
79345	34516			9020*		1,1,2,2-TETRACHLOROETHANE, TOTAL	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
79345	34517			9020*		1,1,2,2-TETRACHLOROETHANE, DISSOLVED	UG/L	General Organic
79345	34518			9020*		1,1,2,2-TETRACHLOROETHANE, SUSPENDED	UG/L	General Organic
107062	34531	118000*	5.0	113000*		1,2-DICHLOROETHANE, TOTAL	UG/L	General Organic
107062	34532	118000*	5.0	113000*		1,2-DICHLOROETHANE, DISSOLVED	UG/L	General Organic
107062	34533	118000*	5.0	113000*		1,2-DICHLOROETHANE, SUSPENDED	UG/L	General Organic
95501	34536		600			1,2-DICHLOROBENZENE, TOTAL	UG/L	General Organic
95501	34537		600			1,2-DICHLOROBENZENE, DISSOLVED	UG/L	General Organic
95501	34538		600			1,2-DICHLOROBENZENE, SUSPENDED	UG/L	General Organic
78875	34541		5.0			1,2-DICHLOROPROPANE, TOTAL	UG/L	General Organic
78875	34542		5.0			1,2-DICHLOROPROPANE, DISSOLVED	UG/L	General Organic
78875	34543		5.0			1,2-DICHLOROPROPANE, SUSPENDED	UG/L	General Organic
156605	34546		100			TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATER	UG/L	General Organic
156605	34547		100			TRANS-1,2-DICHLOROETHENE, DISSOLVED	UG/L	General Organic
156605	34548		100			TRANS-1,2-DICHLOROETHENE, SUSPENDED	UG/L	General Organic
120821	34551		70			1,2,4-TRICHLOROBENZENE, TOTAL	UG/L	General Organic
120821	34552		70			1,2,4-TRICHLOROBENZENE, DISSOLVED	UG/L	General Organic
120821	34553		70			1,2,4-TRICHLOROBENZENE, SUSPENDED	UG/L	General Organic
541731	34566		600			1,3-DICHLOROBENZENE, TOTAL	UG/L	General Organic
541731	34567		600			1,3-DICHLOROBENZENE, DISSOLVED	UG/L	General Organic
541731	34568		600			1,3-DICHLOROBENZENE, SUSPENDED	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
106467	34571		75			1,4-DICHLOROBENZENE, TOTAL	UG/L	General Organic
106467	34572		75			1,4-DICHLOROBENZENE, DISSOLVED	UG/L	General Organic
106467	34573		75			1,4-DICHLOROBENZENE, SUSPENDED	UG/L	General Organic
95578	34586	4380*				2-CHLOROPHENOL, TOTAL	UG/L	General Organic
95578	34587	4380*				2-CHLOROPHENOL, DISSOLVED	UG/L	General Organic
95578	34588	4380*				2-CHLOROPHENOL, SUSPENDED	UG/L	General Organic
120832	34601	2020*				2,4-DICHLOROPHENOL, TOTAL	UG/L	General Organic
120832	34602	2020*				2,4-DICHLOROPHENOL, DISSOLVED	UG/L	General Organic
120832	34603	2020*				2,4-DICHLOROPHENOL, SUSPENDED	UG/L	General Organic
105679	34606	2120*				2,4-DIMETHYLPHENOL, TOTAL	UG/L	General Organic
105679	34607	2120*				2,4-DIMETHYLPHENOL, DISSOLVED	UG/L	General Organic
105679	34608	2120*				2,4-DIMETHYLPHENOL, SUSPENDED	UG/L	General Organic
121142	34611	330*		590*		2,4-DINITROTOLUENE, TOTAL	UG/L	General Organic
121142	34612	330*		590*		2,4-DINITROTOLUENE, DISSOLVED	UG/L	General Organic
121142	34613	330*		590*		2,4-DINITROTOLUENE, SUSPENDED	UG/L	General Organic
72548	34651	0.6*		3.6*		P,P'-DDD, DISSOLVED	UG/L	Pesticide
72548	34652	0.6*		3.6*		P,P'-DDD, SUSPENDED	UG/L	Pesticide
72559	34653	1050*		14*		P,P'-DDE, DISSOLVED	UG/L	Pesticide
72559	34654	1050*		14*		P,P'-DDE, SUSPENDED	UG/L	Pesticide
50293	34655	1.1		0.13		P,P'-DDT, DISSOLVED	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
50293	34656	1.1		0.13		P,P'-DDT, SUSPENDED	UG/L	Pesticide
1746016	34675	0.01*	0.00003			2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN(TCDD), TOT	UG/L	General Organic
1746016	34676	0.01*	0.00003			2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN(TCDD), DISS	UG/L	General Organic
1746016	34677	0.01*	0.00003			2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN(TCDD), SUSP	UG/L	General Organic
108952	34694	10200*		5800*		PHENOL (C6H5OH) - SINGLE COMPOUND, TOTAL	UG/L	General Organic
91203	34696	2300*		2350*		NAPHTHALENE, TOTAL	UG/L	General Organic
75990	38432		200			DALAPON, WATER, TOTAL	UG/L	Pesticide
75990	38433		200			DALAPON, WATER, DISSOLVED	UG/L	Pesticide
75990	38434		200			DALAPON, WATER, SUSPENDED	UG/L	Pesticide
96128	38437		0.2			DIBROMOCHLOROPROPANE, WATER, TOTAL	UG/L	Pesticide
96128	38438		0.2			DIBROMOCHLOROPROPANE, WATER, DISSOLVED	UG/L	Pesticide
96128	38439		0.2			DIBROMOCHLOROPROPANE WATER, SUSPENDED	UG/L	Pesticide
96128	38760		0.2			DBCP, WATER, TOTAL	UG/L	Pesticide
96128	38761		0.2			DBCP, WATER, DISSOLVED	UG/L	Pesticide
96128	38762		0.2			DBCP, WATER, SUSPENDED	UG/L	Pesticide
88857	38779		7.0			DINOSEB, DISSOLVED	UG/L	Pesticide
88857	38780		7.0			DINOSEB, SUSPENDED	UG/L	Pesticide
23135220	38865		200			OXAMYL, TOTAL	UG/L	Pesticide
23135220	38866		200			OXAMYL, DISSOLVED	UG/L	Pesticide
23135220	38867		200			OXAMYL, SUSPENDED	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
145733	38926		100			ENDOTHALL, WHOLE WATER SAMPLE	UG/L	Pesticide
2921882	38932	0.083		0.011		CHLORPYRIFOS, TOTAL RECOVERABLE	UG/L	Pesticide
2921882	38933	0.083		0.011		CHLORPYRIFOS, DISSOLVED	UG/L	Pesticide
2163806	38935		50			MONOSODIUM METHANEARSONATE (MSMA)	UG/L	Pesticide
2921882	39012	0.083		0.011		DURBAN, FLAME PHOTOMETRIC, WATER SAMPLE	UG/L	Pesticide
56382	39015	0.065				ETHYLPARATHION, FLAME IONIFATION, WATER SAMPLE	UG/L	Pesticide
122349	39025		4.0			SIMAZINE, COULSON CONDUCTIVITY WATER SAMPLE	UG/L	Pesticide
87865	39032	20***	1.0	13		PCP (PENTACHLOROPHENOL) WHOLE WATER SAMPLE	UG/L	Pesticide
1912249	39033		3.0			ATRAZINE IN WHOLE WATER SAMPLE	UG/L	Pesticide
118741	39039	6.0 ^P	1.0			HEXACHLOROBENZENE WATER SAMPLE, ELECTRON CPT	UG/L	Pesticide
93721	39045		50			2,4,5-TP INCLUDES ACIDS & SALTS WATER SAMPLE	UG/L	Pesticide
116063	39053		3.0			ALDICARB IN WHOLE WATER	UG/L	Pesticide
122349	39055		4.0			SIMAZINE IN WHOLE WATER	UG/L	Pesticide
117817	39100	2000*	6.0			BIS(2-ETHYLHEXYL) PHTHALATE, WHOLE WATER	UG/L	General Organic
117817	39103	2000*	6.0			BIS(2-ETHYLHEXYL) PHTHALATE, DISSOLVED	UG/L	General Organic
117817	39104	2000*	6.0			BIS(2-ETHYLHEXYL) PHTHALATE, SUSPENDED	UG/L	General Organic
	39117	0.94*		2.994*		PHTHLATE ESTERS IN WATER	MG/L	General Organic
75014	39175		2.0			VINYL CHLORIDE-WHOLE WATER SAMPLE	UG/L	General Organic
79016	39180	45000*	5.0	2000*		TRICHLOROETHYLENE-WHOLE WATER SAMPLE	UG/L	General Organic
50293	39300	1.1		0.13		P,P' DDT IN WHOLE WATER SAMPLE	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
72548	39310	0.6*		3.6*		P,P' DDD IN WHOLE WATER SAMPLE	UG/L	Pesticide
72559	39320	1050*		14*		P,P' DDE IN WHOLE WATER SAMPLE	UG/L	Pesticide
309002	39330	3.0		1.3		ALDRIN IN WHOLE WATER SAMPLE	UG/L	Pesticide
309002	39331	3.0		1.3		ALDRIN IN FILT. FRAC. OF WAT. SAMP.	UG/L	Pesticide
309002	39332	3.0		1.3		ALDRIN IN SUSP. FRAC. OF WAT. SAMP.	UG/L	Pesticide
58899	39340	2.0	0.2	0.16		GAMMA-BHC(LINDANE), WHOLE WATER	UG/L	Pesticide
58899	39341	2.0	0.2	0.16		GAMMA-BHC(LINDANE), DISSOLVED	UG/L	Pesticide
58899	39342	2.0	0.2	0.16		GAMMA-BHC(LINDANE), SUSPENDED	UG/L	Pesticide
57749	39350	2.4	2.0	0.09		CHLORDANE(TECH MIX & METABS), WHOLE WATER	UG/L	Pesticide
57749	39352	2.4	2.0	0.09		CHLORDANE(TECH MIX & METABS), DISSOLVED	UG/L	Pesticide
57749	39353	2.4	2.0	0.09		CHLORDANE(TECH MIX & METABS), SUSPENDED	UG/L	Pesticide
72548	39360	0.6*		3.6*		DDD IN WHOLE WATER SAMPLE	UG/L	Pesticide
72548	39361	0.6*		3.6*		DDD IN FILT. FRAC. OF WATER SMAPLE	UG/L	Pesticide
72548	39362	0.6*		3.6*		DDD IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
72559	39365	1050*		14*		DDE IN WHOLE WATER SAMPLE	UG/L	Pesticide
72559	39366	1050*		14*		DDE IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
72559	39367	1050*		14*		DDE IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
50293	39370	1.1		0.13		DDT IN WHOLE WATER SAMPLE	UG/L	Pesticide
50293	39371	1.1		0.13		DDT IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
50293	39372	1.1		0.13		DDT IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
60571	39380	2.5		0.71		DIELDRIN IN WHOLE WATER SAMPLE	UG/L	Pesticide
60571	39381	2.5		0.71		DIELDRIN IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
60571	39382	2.5		0.71		DIELDRIN IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
115297	39388	0.22		0.034		ENDOSULFAN IN WHOLE WATER SAMPLE	UG/L	Pesticide
72208	39390	0.18	2.0	0.037		ENDRIN IN WHOLE WATER SAMPLE	UG/L	Pesticide
72208	39391	0.18	2.0	0.037		ENDRIN IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
72208	39392	0.18	2.0	0.037		ENDRIN IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
8001352	39400	0.73	3.0	0.21		TOXAPHENE IN WHOLE WATER SAMPLE	UG/L	Pesticide
8001352	39401	0.73	3.0	0.21		TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
8001352	39402	0.73	3.0	0.21		TOXAPHENE IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
76448	39410	0.52	0.4	0.053		HEPTACHLOR IN WHOLE WATER SAMPLE	UG/L	Pesticide
76448	39411	0.52	0.4	0.053		HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
76448	39412	0.52	0.4	0.053		HEPTACHLOR IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
1024573	39420	0.52	0.2	0.053		HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	UG/L	Pesticide
1024573	39421	0.52	0.2	0.053		HEPTACHLOR EPOXIDE IN FILT. FRAC. WATER SAMPLE	UG/L	Pesticide
1024573	39422	0.52	0.2	0.053		HEPTACHLOR EPOXIDE IN SUSP. FRAC. WATER SAMPLE	UG/L	Pesticide
72435	39478		40			METHOXYCHLOR IN WHOLE WATER DISSOLVED	UG/L	Pesticide
72435	39479		40			METHOXYCHLOR IN WHOLE WATER SUSPENDED	UG/L	Pesticide
72435	39480		40			METHOXYCHLOR IN WHOLE WATER SAMPLE	UG/L	Pesticide
56382	39540	0.065				PARATHION IN WHOLE WATER SAMPLE	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
56382	39542	0.065				PARATHION IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
56382	39543	0.065				PARATHION IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
1912249	39630		3.0			ATRAZINE(AATREX) IN WHOLE WATER SAMPLE	UG/L	Pesticide
1912249	39632		3.0			ATRAZINE DISSOLVED IN WATER	PPB	Pesticide
118741	39700	6.0 ^P	1.0			HEXACHLOROBENZENE IN WHOLE WATER SAMPLE	UG/L	General Organic
87683	39702	90 [*]		32 [*]		HEXACHLOROBUTADIENE IN WHOLE WATER SAMPLE	UG/L	General Organic
1918021	39720		500			PICLORAM IN WHOLE WATER SAMPLE	UG/L	Pesticide
94757	39730		70			2,4-D IN WHOLE WATER SAMPLE	UG/L	Pesticide
94757	39732		70			2,4-D IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
94757	39733		70			2,4-D IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
93721	39760		50			SILVEX IN WHOLE WATER SAMPLE	UG/L	Pesticide
93721	39762		50			SILVEX IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
93721	39763		50			SILVEX IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
58899	39782	2.0	0.2	0.16		LINDANE IN WHOLE WATER SAMPLE	UG/L	Pesticide
1071836	39941		700			ROUNDUP IN WHOLE WATER SAMPLE (GLYPHOSATE)	UG/L	Pesticide
7782505	45650	0.019		0.013		CHLORINE, IN ORGANIC COMPOUNDS, WATER, WHOLE	MG/L	General Inorganic
56382	46315	0.065				ETHYL PARATHION IN WHOLE WATER SAMPLE	UG/L	Pesticide
58899	46322	2.0	0.2	0.16		LINDANE PLUS ISOMERS IN WHOLE WATER SAMPLE	UG/L	Pesticide
76448	46326	0.52	0.4	0.053		HEPTACHLOR AND METABOLITES IN WHOLE H2O SAMPLE	UG/L	Pesticide
15972608	46342		2.0			ALACHLOR (LASSO), WATER, DISSOLVED	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7782505	46472	0.019		0.013		CHLORINE, TOTAL RESIDUAL, AVERAGE VALUE, WATER	MG/L	General Inorganic
7782505	46473	0.019		0.013		CHLORINE, FREE AVAILABLE, AVERAGE VALUE, WATER	MG/L	General Inorganic
57125	46479	22	200	1.0		CYANIDE, DISSOLVED, WATER	UG/L	General Inorganic
7440382	46551	360	50	69		ARSENIC, FIELD ACIDIFIED W/HNO3, LAB FILTERED	UG/L	Metal
7440393	46558		2000			BARIUM, FIELD ACIDIFIED W/HNO3-LAB FILT	UG/L	Metal
7440439	46559	3.9 ⁺	5.0	43		CADMIUM, FIELD ACIDIFIED-HNO3-LAB FILTER	UG/L	Metal
7440473	46560		100			CHROMIUM, FIELD ACIDIFIED-HNO3-LAB FILT.	UG/L	Metal
7440508	46562	18 ⁺	1300 ^a	2.9		COPPER, FIELD ACIDIFIED-HNO3- LAB FILTER.	UG/L	Metal
7439921	46564	82 ⁺	15 ^a	220		LEAD, FIELD ACIDIFIED-HNO3-LAB FILTERED	UG/L	Metal
7440224	46566	4.1 ⁺	100 ^s	0.12		SILVER, FIELD ACIDIFIED-HNO3-LAB FILTER.	UG/L	Metal
7440666	46567	120 ⁺	5000 ^s	95		ZINC, EXTRACTABLE, FIELD ACID W/HNO3, LAB FILTR	UG/L	Metal
56382	49011	0.065				UNKNOWN AS PARATHION IN WHOLE WATER SAMPLE	UG/L	Pesticide
7782505	50058	0.019		0.013		CHLORINE DOSE	MG/L	General Inorganic
7782505	50060	0.019		0.013		CHLORINE, TOTAL RESIDUAL	MG/L	General Inorganic
7782505	50064	0.019		0.013		CHLORINE, FREE AVAILABLE	MG/L	General Inorganic
7782505	50066	0.019		0.013		CHLORINE, COMBINED AVAILABLE	MG/L	General Inorganic
7782505	50074	0.019		0.013		CHLORITE, WHOLE WATER	MG/L	General Inorganic
	61215				200 [^]	FECAL COLIFORM, GENERAL #/100ML	#/100ML	Bacteriological
16887006	70352	860	250 ^s			CHLORIDE, ORGANIC	MG/L	General Organic
14797558	71850		44			NITRATE NITROGEN, TOTAL (AS NO3)	MG/L	Nitrogen

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
14797558	71851		44			NITRATE NITROGEN, DISSOLVED (AS NO3)	MG/L	Nitrogen
14797650	71855		3.3			NITRITE NITROGEN, TOTAL (AS NO2)	MG/L	Nitrogen
14797650	71856		3.3			NITRITE NITROGEN, DISSOLVED (AS NO2)	MG/L	Nitrogen
7439976	71890	2.4	2.0	2.1		MERCURY, DISSOLVED	UG/L	Metal
7439976	71895	2.4	2.0	2.1		MERCURY, SUSPENDED	UG/L	Metal
7439976	71900	2.4	2.0	2.1		MERCURY, TOTAL	UG/L	Metal
7439976	71901	2.4	2.0	2.1		MERCURY, TOTAL RECOVERABLE IN WATER AS HG	UG/L	Metal
7440439	71946	3.9 ⁺	5.0	43		CADMIUM, EXTRACTABLE	UG/L	Metal
7440473	71947		100			CHROMIUM, EXTRACTABLE	UG/L	Metal
7439921	71949	82 ⁺	15 ^a	220		LEAD, EXTRACTABLE	UG/L	Metal
7440666	71950	120 ⁺	5000 ^s	95		ZINC, EXTRACTABLE	UG/L	Metal
7440508	71951	18 ⁺	1300 ^a	2.9		COPPER, EXTRACTABLE	UG/L	Metal
1336363	76011	2000	500	10000		PCBS, SUSPENDED, WATER	NG/L	General Organic
1336363	76012	2000	500	10000		PCBS, TOTAL RECOVERABLE, WATER	NG/L	General Organic
156592	77093		70			CIS-1,2-DICHLOROETHYLENE, WHOLE WATER	UG/L	General Organic
100425	77128		100			STYRENE, WHOLE WATER	UG/L	General Organic
106489	77296			29700 [*]		P-CHLOROPHENOL, WHOLE WATER	UG/L	General Organic
106934	77651		0.05			1,2-DIBROMOETHANE, WHOLE WATER	UG/L	General Organic
95954	77687	100 ^p		240 ^p		2,4,5-TRICHLOROPHENOL, WHOLE WATER	UG/L	General Organic
935955	77769			440 [*]		2,3,5,6-TETRACHLOROPHENOL, WHOLE WATER	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
103231	77903		400			BIS (2-ETHYLHEXYL) ADIPATE, WHOLE WATER	UG/L	General Organic
18540299	78247	16	100	1100		CHROMIUM, HEXAVALENT, TOTAL RECOVERABLE	UG/L	Metal
57125	78248	22	200	1.0		CYANIDE, TOTAL RECOVERABLE, WATER, WHOLE	UG/L	Metal
	78456	11*		12*		HALOMETHANES, SUMMATION, WHOLE WATER	MG/L	General Organic
14808798	78462		250 ^s			SULFATE, WATER, DISSOLVED AS S	MG/L	Metal
85007	78885		20			DIQUAT DIBROMIDE (REGLONE) WHOLE WATER SAMPLE	UG/L	Pesticide
7440611	80020		20°			URANIUM, DISS. BY EXTRACTION FLUOROMETRIC	UG/L	Radiological
16065831	80357	1700	100	10300*		CHROMIUM, TRIVALENT, DISSOLVED	UG/L	Metal
57125	81208	0.022	0.2	0.001		CYANIDE,FREE (NOT AMENABLE TO CHLORINATION)	MG/L	General Inorganic
608731	81283	100*		0.34*		BENZENEHEXACHLORIDE, WHOLE WATER	UG/L	Pesticide
88857	81287		7.0			DNBP(C10H12N2O5), WHOLE WATER SAMPLE	UG/L	Pesticide
26638197	81327	23000*	5.0	10300*		DICHLOROPROPANE, WHOLE WATER SAMPLE	UG/L	General Organic
25321226	81333	1120*		1970*		DICHLOROBENZENE ISOMER, WHOLE WATER SAMPLE	UG/L	General Organic
2921882	81403	0.083		0.011		DURSBAN (CHLOROPYRIFOS) WHOLE WATER SAMPLE	UG/L	Pesticide
1563662	81405		40			CARBOFURAN (EURADAN) WHOLE WATER SAMPLE	UG/L	Pesticide
76017	81501	7240*		390*		PENTACHLOROETHANE, WHOLE WATER SAMPLE	UG/L	General Organic
25321226	81524	1120*		1970*		DICHLOROBENZENE, WHOLE WATER SAMPLE	UG/L	General Organic
25322207	81549	9320*				TETRACHLOROETHANE, WHOLE WATER SAMPLE	UG/L	General Organic
26638197	81703	23*	0.005*	10.3*		DICHLOROPROPANE, WHOLE WATER SAMPLE	MG/L	General Organic
7440508	81750	18 ⁺	1300 ^a	2.9		COPPER, INTERSTITIAL WATERFROM SEDIMENTS	UG/L	Metal

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7440020	81752	1400 ⁺	100	75		NICKEL, INTERSTITIAL WATER FROM SEDIMENTS	UG/L	Metal
7440666	81754	120 ⁺	5000 ^s	95		ZINC, INTERSTITIAL WATER FROM SEDIMENTS	UG/L	Metal
25323891	81853	18000 [*]				TRICHLOROETHANE, WHOLE WATER SAMPLE	UG/L	General Organic
7439976	81931	2.4	2.0	2.1		MERCURY (HG) SUSPENDED FRACTION OF WATER	UG/G	Metal
7440666	81933	120 ⁺	5000 ^s	95		ZINC (ZN) SUSPENDED FRACTION OF WATER	UG/G	Metal
7439921	81936	82 ⁺	15 ^a	220		LEAD (PB) DISSOLVED CATIONIC SPECIES	UG/L	Metal
7440439	81937	3.9 ⁺	5.0	43		CADMIUM (CD) DISSOLVED CATIONIC SPECIES	UG/L	Metal
7440473	81938		100			CHROMIUM (CR) DISSOLVED CATIONIC SPECIES	UG/L	Metal
7440508	81939	18 ⁺	1300 ^a	2.9		COPPER (CU) DISSOLVED CATIONIC SPECIES	UG/L	Metal
7440666	81940	120 ⁺	5000 ^s	95		ZINC (ZN) DISSOLVED CATIONIC SPECIES	UG/L	Metal
7440473	81941		100			CHROMIUM (CR) DISSOLVED ANIONIC SPECIES	UG/L	Metal
7440508	81942	18 ⁺	1300 ^a	2.9		COPPER (CU) DISSOLVED ANIONIC SPECIES	UG/L	Metal
7440666	81943	120 ⁺	5000 ^s	95		ZINC (ZN) DISSOLVED ANIONIC SPECIES	UG/L	Metal
	82078				50 ^l	TURBIDITY, FIELD	NTU	Physical
	82079				50 ^l	TURBIDITY, LAB	NTU	Physical
88857	82226		7.0			2 SECONDARY BUTYL 4,6-DINITROPHENOL	UG/L	Pesticide
16887006	82295	860000	250000 ^s			CHLORIDE DISSOLVED AS CL IN WATER	UG/L	General Inorganic
72435	82350		40			METHOXYCHLOR, DISSOLVED IN WATER	UG/L	Pesticide
72435	82351		40			METHOXYCHLOR, SUSPENDED IN WATER	UG/L	Pesticide
115297	82354	0.22		0.034		ENDOSULFAN, DISSOLVED IN WATER	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
115297	82355	0.22		0.034		ENDOSULFAN, SUSPENDED IN WATER	UG/L	Pesticide
57125	82573	0.022	0.2	0.001		CYANIDE/CHLORINATION IN WATER	MG/L	General Inorganic
1646873	82586		4.0			ALDICARB SULFOXIDE, WATER, TOTAL RECOVERABLE	UG/L	General Organic
1646884	82587		2.0			ALDICARB SULFONE, WHOLE WATER, TOTAL RECOVERABLE	UG/L	General Organic
23135220	82613		200			OXAMYL, WHOLE WATER, TOTAL RECOVERABLE	UG/L	Pesticide
1563662	82615		40			CARBOFURAN, WHOLE WATER, TOTAL RECOVERABLE	UG/L	Pesticide
116063	82619		3.0			ALDICARB, WHOLE WATER, TOTAL RECOVERABLE	UG/L	Pesticide
33213659	82624	0.22		0.034		ENDOSULFAN, BETA, WH WATER, TOTAL RECOVERABLE	UG/L	Pesticide
96128	82625		0.2			DIBROMOCHLOROPROPANE, WATER, TOTAL RECOVERABLE	UG/L	Pesticide

Footnote Key:

*Insufficient Data to Develop Criteria. Value Presented is the L.O.E.L. - Lowest Observed Effect Level.

+Hardness Dependent Criteria (100 mg/L CaCO₃ Used).

***pH Dependent Criteria (7.8 pH Used).

▬Rule of thumb criterion used by the NPS Air Quality Division for determining sensitivity to acid deposition.

^Freshwater bathing criterion, EPA geometric mean based on at least 5 samples equally spaced over a 30-day period; Enterococci marine water bathing criterion 35 CFU/100 ml.

#EPA freshwater aquatic life chronic criterion; marine criterion is ≤6.5, ≥8.5.

!Arizona state standard.

^aEPA action level, 40 CFR 141.80.

^bCalifornia and Florida state bathing water standards.

^cA Compilation of Water Quality Goals, California Regional Water Quality Control Board Central Valley Region, Sacramento, California, September, 1991.

ⁿTotal coliform drinking water maximum contaminant level (1 cfu/100ml or 1 mpn/100ml) was not used in water quality criteria comparisons.

^pProposed Criterion.

^rAverage annual concentration assumed to produce a total body or organ dose of 4 mrem/year, 40 CFR 141.16.

^sEPA National Secondary Drinking Water Regulation, 40 CFR 143.

^tThe maximum contaminant level for the sum of the concentrations of trihalomethanes is 100 µg/L, 40 CFR 141.12.

^uColdwater criterion one day minimum; warmwater criterion seven day mean minimum.

Appendix G

Inventory Data Evaluation and Analysis (IDEA) Servicewide Inventory and Monitoring Program "Level I" Parameter Groups

The following table provides the Servicewide Inventory and Monitoring Program's "Level I" water quality inventory parameter groups (National Park Service 1993). In order to determine the presence and/or absence of data for each of these parameter groups in the park, the parameter groups had to be defined by STORET parameter codes. This table provides the STORET codes and parameter descriptions for each parameter comprising one of the Servicewide Inventory and Monitoring Program's "Level I" water quality parameter groups. Additional parameters could have been incorporated into each group, but an effort was made to represent each group with the parameters deemed to most likely occur in STORET and parks. The Toxic Elements Parameter Group was defined as the EPA's Clean Water Act Section 304(a) Priority Toxic Pollutants (40 CFR 131.36). Parameters are listed in ascending order of STORET code within each parameter group. It is important to note that similar parameters often have non-consecutive codes. Consequently, scanning the entire list is necessary to find all the parameters of a particular type (eg. lead, copper, etc.). Refer to the Parameter Period of Record Tabulation to obtain the STORET code for any parameter measured in the park.

STORET Code	Water Temperature Parameter Group	C.A.S. Number
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	-
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	-
STORET Code	Flow Parameter Group¹	C.A.S. Number
00056	FLOW RATE, GALLONS/DAY	-
00058	FLOW RATE, GALLONS/MIN.	-
00059	FLOW RATE, INSTANTANEOUS, GALLONS/MINUTE	-
00060	FLOW, STREAM, MEAN DAILY CFS	-
00061	FLOW, STREAM, INSTANTANEOUS CFS	-
00065	STAGE, STREAM (FEET)	-
00067	TIDE STAGE CODE	-
00072	STAGE, STREAM (METERS)	-

¹Tide stage is included in the Flow Parameter Group for coastal parks.

STORET Code	Clarity/Turbidity Parameter Group	C.A.S. Number
00070	TURBIDITY, (JACKSON CANDLE UNITS)	-
00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	-
00076	TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT)	-
00077	TRANSPARENCY, SECCHI DISC (INCHES)	-
00078	TRANSPARENCY, SECCHI DISC (METERS)	-
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	-
82078	TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS NTU	-
82079	TURBIDITY, LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	-
STORET Code	Conductivity Parameter Group	C.A.S. Number
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	-
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	-
00096	SALINITY AT 25 DEGREES C (MG/ML)	-
00480	SALINITY - PARTS PER THOUSAND	-
STORET Code	Dissolved Oxygen Parameter Group	C.A.S. Number
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE (MG/L)	7782447
00300	OXYGEN, DISSOLVED (MG/L)	7782447
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	7782447
00389	OXYGEN, DISSOLVED, LAB ANAL. BY PROBE OF FIELD SAMPLE (MG/L)	7782447
STORET Code	pH Parameter Group	C.A.S. Number
00400	PH (STANDARD UNITS)	-
00403	PH, LAB (STANDARD UNITS)	-
00406	PH, FIELD (STANDARD UNITS)	-

STORET Code	Alkalinity Parameter Group	C.A.S. Number
00409	ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYSIS (μ EQ/L)	471341
00410	ALKALINITY, TOTAL (MG/L AS CaCO_3)	471341
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	77098
00430	ALKALINITY, CARBONATE (MG/L AS CaCO_3)	471341
00435	ACIDITY, TOTAL (MG/L AS CaCO_3)	471341
00440	BICARBONATE ION (MG/L AS HCO_3)	71523
00445	CARBONATE ION (MG/L AS CO_3)	3812326
STORET Code	Nitrate/Nitrogen Parameter Group	C.A.S. Number
00600	NITROGEN, TOTAL (MG/L AS N)	17778880
00602	NITROGEN, DISSOLVED (MG/L AS N)	17778880
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	17778880
00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	17778880
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	17778880
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	17778880
00612	AMMONIA, UNIONIZED (MG/L AS N)	7664417
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	17778880
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	17778880
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	17778880
00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	17778880
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	17778880
00631	NITRITE PLUS NITRATE, DISSOLVED 1 DET. (MG/L AS N)	17778880
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH_4)	14798039
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH_4)	14798039
71850	NITRATE NITROGEN, TOTAL (MG/L AS NO_3)	14797558
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO_3)	14797558
71855	NITRITE NITROGEN, TOTAL (MG/L AS NO_2)	14797650
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO_2)	14797650

STORET Code	Phosphate/Phosphorus Parameter Group	C.A.S. Number
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	14265442
00655	PHOSPHATE, POLY (MG/L AS PO4)	14265442
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	14265442
00665	PHOSPHORUS, TOTAL (MG/L AS P)	7723140
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	7723140
00670	PHOSPHORUS, TOTAL ORGANIC (MG/L AS P)	7723140
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	7723140
70505	PHOSPHORUS, TOTAL, COLORIMETRIC METHOD (MG/L AS P)	7723140
70507	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	7723140
STORET Code	Sulfates/Total Dissolved Solids/Hardness Parameter Group	C.A.S. Number
00900	HARDNESS, TOTAL (MG/L AS CaCO3)	471341
00945	SULFATE, TOTAL (MG/L AS SO4)	14808798
00946	SULFATE, DISSOLVED (MG/L AS SO4)	14808798
70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), (MG/L)	-
STORET Code	Chlorophyll Parameter Group	C.A.S. Number
32209	CHLOROPHYLL A (UG/L) FLUOROMETRIC CORRECTED	479618
32210	CHLOROPHYLL A (UG/L) TRICHROMATIC UNCORRECTED	479618
32211	CHLOROPHYLL A (UG/L) SPECTROPHOTOMETRIC ACID METH.	479618
32217	CHLOROPHYLL A (UG/L) FLUOROMETRIC UNCORRECTED	479618
32223	CHLOROPHYLL A (MG/M2) SPECTROPHOTOMETRIC CORRECTED	479618
32228	CHLOROPHYLL A (MG/M2) PERIPHYTON SPECTRO.	479618
32229	CHLOROPHYLL A (MG/M2) FLUOR. CORRECTED, SUBSTRATER	479618
32230	CHLOROPHYLL A (MG/L)	479618

STORET Code	Bacteria Parameter Group	C.A.S. Number
00111	RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI	-
31501	COLIFORM, TOT, MEMBRANE FILTER, IMMED., M-ENDO MED,35C	-
31503	COLIFORM, TOT, MEMBRANE FILTER, DELAY, M-ENDO MED, 35C	-
31504	COLIFORM, TOT, MEMBRANE FILTER, IMMED., LES-ENDO AGAR, 35C	-
31505	COLIFORM, TOT, MPN, CONFIRMED TEST,35C(TUBE 31506)	-
31506	COLIFORM, TOT, MPN, CONFIRMED TEST, TUBE CONFIG.	-
31507	COLIFORM, TOT, MPN, COMPLETED TEST,35C(TUBE 31508)	-
31508	COLIFORM, TOT, MPN, COMPLETED TEST, TUBE CONFIG.	-
31613	FECAL COLIFORM, MEMBR, FILTER,M-FC AGAR,44.5C,24HR	-
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	-
31615	FECAL COLIFORM, MPN, EC MED, 44.5C (TUBE 31614)	-
31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5C	-
31617	FECAL COLIFORM, MPN,EIJKMAN TEST,44.5C(TUBE 31618)	-
31625	FECAL COLIFORM, MF, M-FC, 0.7 UM	-
31648	E. COLI - MTEC-MF	-
31649	ENTEROCOCCI- ME-MF	-
31673	FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	-
31676	FECAL STREPTOCOCCI, MPN, KF BROTH, TUBE CONFIG.	-
31677	FECAL STREPTOCOCCI, MPN, AD-EVA, 35C (TUBE 31678)	-
31751	PLATE COUNT, TOTAL, TPC AGAR, 35C, 24 HRS	-
61214	FECAL STREPTOCOCCI, GENERAL #/100ML	-
61215	FECAL COLIFORM, GENERAL #/100ML	-
STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants)	C.A.S. Number
00718	CYANIDE, WEAK ACID, DISSOC. WATER, WHOLE (UG/L)	57125
00719	CYANIDE, FREE, IN WATER & WASTEWATERS, HBG (UG/L)	57125
00720	CYANIDE, TOTAL (MG/L AS CN)	57125
00722	CYANIDE, FREE (AMENABLE TO CHLORINATION) (MG/L)	57125

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
00723	CYANIDE, DISSOLVED STD METHOD (UG/L)	57125
00724	CYANIDE COMPLEXED TO A RANGE OF COMPNDS (UG/L)	57125
00969	CHRYSTILE ASBESTOS FIBERS/LITER	1332214
00973	AMPHIBOLE ASBESTOS FIBERS/LITER	1332214
00976	AMBIGUOUS ASBESTOS FIBERS/LITER	1332214
00977	NON-AMPHIBOLE NON-CHRYSTILE ASBESTOS FIBERS/LITER	1332214
00978	ARSENIC, TOTAL RECOVERABLE IN WATER AS AS	7440382
00981	SELENIUM, TOTAL RECOVERABLE IN WATER AS SE (UG/L)	7782492
00982	THALLIUM, TOTAL RECOVERABLE IN WATER AS (UG/L)	7440280
00990	SELENITE, TOTAL RECOVERABLE INORGANIC (UG/L)	7782492
00991	ARSENIC, TOTAL RECOVER. TRIVALENT INORGANIC (UG/L)	7440382
00995	ARSENIC, INORGANIC DISSOLVED (UG/L AS AS)	7440382
00996	ARSENIC, INORGANIC SUSPENDED (UG/L AS AS)	7440382
00997	ARSENIC, INORGANIC TOTAL (UG/L AS AS)	7440382
00998	BERYLLIUM, TOTAL RECOVERABLE IN WATER AS BE (UG/L)	7440417
01000	ARSENIC, DISSOLVED (UG/L AS AS)	7440382
01001	ARSENIC, SUSPENDED (UG/L AS AS)	7440382
01002	ARSENIC, TOTAL (UG/L AS AS)	7440382
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	7440417
01011	BERYLLIUM, SUSPENDED (UG/L AS BE)	7440417
01012	BERYLLIUM, TOTAL (UG/L AS BE)	7440417
01025	CADMIUM, DISSOLVED (UG/L AS CD)	7440439
01026	CADMIUM, SUSPENDED (UG/L AS CD)	7440439
01027	CADMIUM, TOTAL (UG/L AS CD)	7440439
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	7440473
01031	CHROMIUM, SUSPENDED (UG/L AS CR)	7440473
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	7440473
01033	CHROMIUM, TRI-VAL (UG/L AS CR)	16065831
01034	CHROMIUM, TOTAL (UG/L AS CR)	7440473

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
01040	COPPER, DISSOLVED (UG/L AS CU)	7440508
01041	COPPER, SUSPENDED (UG/L AS CU)	7440508
01042	COPPER, TOTAL (UG/L AS CU)	7440508
01049	LEAD, DISSOLVED (UG/L AS PB)	7439921
01050	LEAD, SUSPENDED (UG/L AS PB)	7439921
01051	LEAD, TOTAL (UG/L AS PB)	7439921
01057	THALLIUM, DISSOLVED (UG/L AS TL)	7440280
01058	THALLIUM, SUSPENDED (UG/L AS TL)	7440280
01059	THALLIUM, TOTAL (UG/L AS TL)	7440280
01065	NICKEL, DISSOLVED (UG/L AS NI)	7440020
01066	NICKEL, SUSPENDED (UG/L AS NI)	7440020
01067	NICKEL, TOTAL (UG/L AS NI)	7440020
01074	NICKEL, TOTAL RECOVERABLE IN WATER AS NI (UG/L)	7440020
01075	SILVER, DISSOLVED (UG/L AS AG)	7440224
01076	SILVER, SUSPENDED (UG/L AS AG)	7440224
01077	SILVER, TOTAL (UG/L AS AG)	7440224
01079	SILVER, TOTAL RECOVERABLE IN WATER AS AG (UG/L)	7440224
01089	COPPER AS SUSPENDED BLACK OXIDE IN WATER (MG/L)	7440508
01090	ZINC, DISSOLVED (UG/L AS ZN)	7440666
01091	ZINC, SUSPENDED (UG/L ZN)	7440666
01092	ZINC, TOTAL (UG/L AS ZN)	7440666
01094	ZINC, TOTAL RECOVERABLE IN WATER AS ZN (UG/L)	7440666
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	7440360
01096	ANTIMONY, SUSPENDED (UG/L AS SB)	7440360
01097	ANTIMONY, TOTAL (UG/L AS SB)	7440360
01113	CADMIUM, TOTAL RECOVERABLE IN WATER AS CD (UG/L)	7440439
01114	LEAD, TOTAL RECOVERABLE IN WATER AS PB (UG/L)	7439921
01118	CHROMIUM, TOTAL RECOVERABLE IN WATER AS CR (UG/L)	7440473
01119	COPPER, TOTAL RECOVERABLE IN WATER AS CU (UG/L)	7440508

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
01124	THALLIUM, ACID SOLUBLE, WATER, WHOLE (UG/L)	7440280
01128	THALLIUM, TOTAL RECOVERABLE <95%, UG/L AS TL	7440280
01138	SELENIUM, IN WATER, LBS/DAY	7782492
01145	SELENIUM, DISSOLVED (UG/L AS SE)	7782492
01146	SELENIUM, SUSPENDED (UG/L AS SE)	7782492
01147	SELENIUM, TOTAL (UG/L AS SE)	7782492
01167	SELENIUM, ACID SOLUBLE, WATER, WHOLE (UG/L)	7782492
01220	CHROMIUM, HEXAVALENT, DISSOLVED IN (UG/L AS CR)	18540299
01252	ARSENIC, LB/DAY/CFS STREAM FLOW	7440382
01253	CADMIUM, LB/DAY/CFS STREAM FLOW	7440439
01254	CHROMIUM, TOTAL (LBS/DAY/CFS STREAM FLOW)	7740473
01255	CHROMIUM, HEXAVALENT, LB/DAY/CFS STREAM FLOW	18540299
01256	COPPER, LB/DAY/CFS STREAM FLOW	7440508
01257	CYANIDE LB/DAY/CFS STREAM FLOW	57125
01259	LEAD, LB/DAY/CFS STREAM FLOW	7439921
01260	MERCURY, LB/DAY/CFS STREAM FLOW	7439976
01261	NICKEL, LB/DAY/CFS STREAM FLOW	7440020
01263	SILVER, LB/DAY/CFS STREAM FLOW	7440224
01264	ZINC LB/DAY/CFS STREAM FLOW	7440666
01268	ANTIMONY, (SB), WATER, TOTAL RECOVERABLE (UG/L)	7440360
01291	CYANIDE, FILTERABLE, TOTAL IN WATER (UG/L)	57125
01303	ZINC, POTENTIALLY DISSOLVED WATER (MG/L)	7440666
01304	SILVER, POTENTIALLY DISSOLVED WATER (MG/L)	7440224
01306	COPPER, POTENTIALLY DISSOLVED WATER (MG/L)	7440508
01307	CHROMIUM, HEXAVALENT, POTENT. DISS. WATER (MG/L)	18540299
01309	ARSENIC, POTENTIALLY, DISSOLVED, WATER (MG/L)	7440382
01312	BERYLLIUM, POTENTIALLY, DISSOLVED, WATER (MG/L)	7440417
01313	CADMIUM, POTENTIALLY, DISSOLVED, WATER (MG/L)	7440439

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
01314	CHROMIUM, TRIVALENT, POTENT., DISS., WATER (MG/L)	16065831
01318	LEAD, POTENTIALLY, DISSOLVED, WATER (MG/L)	7439921
01321	MERCURY, POTENTIALLY, DISSOLVED, WATER (MG/L)	7439976
01322	NICKEL, POTENTIALLY, DISSOLVED, WATER (MG/L)	7440020
01323	SELENIUM, POTENTIALLY, DISSOLVED, WATER (MG/L)	7782492
01324	THALLIUM, POTENTIALLY, DISSOLVED, WATER (MG/L)	7440280
01523	SILVER, IONIC (UG/L)	7440224
22675	SELENIUM, DISSOLVED ORGANIC (UG/L)	7782492
22676	SELENIUM, HEXAVALENT, DISSOLVED (UG/L)	7782492
22677	SELENIUM, TETRAVALENT, DISSOLVED	7782492
22678	ARSENIC, DISSOLVED ORGANIC (UG/L)	7440382
22679	ARSENIC, PENTAVALENT, DISSOLVED (UG/L)	7440382
22680	ARSENIC, TRIVALENT, DISSOLVED (UG/L)	7440382
30197	2-CHLOROETHYL VINYL ETHER, WATER, WHL, RECOVER (UG/L)	110758
30201	CHLOROMETHANE, WATER, WHOLE, RECOVERABLE (UG/L)	74873
30202	BROMOMETHANE, WATER, WHOLE, RECOVERABLE (UG/L)	74839
32003	CARBON CHLOROFORM AND CARBON ALCOHOL EXT. (UG/L)	67663
32005	CARBON CHLOROFORM EXTRACTABLES (UG/L)	67663
32021	CARBON CHLOROFORM EXTRACTS, ETHER INSOLUBLE (UG/L)	67663
32022	CARBON CHLOROFORM EXTRACTS, WATER SOLUBLES (UG/L)	67663
32101	BROMODICHLOROMETHANE, WHOLE WATER (UG/L)	75274
32102	CARBON TETRACHLORIDE, WHOLE WATER, (UG/L)	56235
32103	1,2-DICHLOROETHANE, WHOLE WATER (UG/L)	107062
32104	BROMOFORM, WHOLE WATER, (UG/L)	75252
32105	DIBROMOCHLOROMETHANE, WHOLE WATER, (UG/L)	124481
32106	CHLOROFORM, WHOLE WATER (UG/L)	67663
32260	CARBON TETRACHLORIDE EXTRACTABLES (MG/L)	56235
32270	CHLOROFORM EXTRACTABLES TOTAL IN MG PER LITER	67663

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34010	TOLUENE IN WTR SMPLE GC-MS, HEXADECONE EXT. (UG/L)	108883
34030	BENZENE IN WTR SMPLE GC-MS, HEXADECONE EXT. (UG/L)	71432
34198	BHC-DELTA, WATER, WHOLE (LBS/DAY)	319868
34200	ACENAPHTHYLENE, TOTAL (UG/L)	208968
34201	ACENAPHTHYLENE, DISSOLVED (UG/L)	208968
34202	ACENAPHTHYLENE, SUSPENDED (UG/L)	208968
34205	ACENAPHTHENE, TOTAL (UG/L)	83329
34206	ACENAPHTHENE, DISSOLVED (UG/L)	83329
34207	ACENAPHTHENE, SUSPENDED (UG/L)	83329
34210	ACROLEIN, TOTAL (UG/L)	107028
34211	ACROLEIN, DISSOLVED (UG/L)	107028
34212	ACROLEIN, SUSPENDED (UG/L)	107028
34215	ACRYLONITRILE, TOTAL (UG/L)	107131
34216	ACRYLONITRILE, DISSOLVED (UG/L)	107131
34217	ACRYLONITRILE, SUSPENDED (UG/L)	107131
34220	ANTHRACENE, TOTAL (UG/L)	120127
34221	ANTHRACENE, DISSOLVED (UG/L)	120127
34222	ANTHRACENE, SUSPENDED (UG/L)	120127
34225	ASBESTOS (FIBROUS) TOTAL (UG/L)	1332214
34226	ASBESTOS (FIBROUS) DISSOLVED (UG/L)	1332214
34227	ASBESTOS (FIBROUS) SUSPENDED (UG/L)	1332214
34230	BENZO(B)FLUORANTHENE, WHOLE WATER (UG/L)	205992
34231	BENZO(B)FLUORANTHENE, DISSOLVED (UG/L)	205992
34232	BENZO(B)FLUORANTHENE, SUSPENDED (UG/L)	205992
34235	BENZENE, DISSOLVED (UG/L)	71432
34236	BENZENE, SUSPENDED (UG/L)	71432
34239	BENZIDINE, DISSOLVED (UG/L)	92875
34240	BENZIDINE, SUSPENDED (UG/L)	92875

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34242	BENZO(K)FLUORANTHENE, TOTAL (UG/L)	207089
34243	BENZO(K)FLUORANTHENE, DISSOLVED (UG/L)	207089
34244	BENZO(K)FLUORANTHENE, SUSPENDED (UG/L)	207089
34247	BENZO-A-PYRENE, TOTAL (UG/L)	50328
34248	BENZO-A-PYRENE, DISSOLVED (UG/L)	50328
34249	BENZO-A-PYRENE, SUSPENDED (UG/L)	50328
34253	A-BHC-ALPHA, DISSOLVED (UG/L)	319846
34254	A-BHC-ALPHA, SUSPENDED (UG/L)	319846
34255	B-BHC-BETA, DISSOLVED (UG/L)	319857
34256	B-BHC-BETA, SUSPENDED (UG/L)	319857
34259	DELTA BENZENE HEXACHLORIDE, TOTAL (UG/L)	319868
34260	DELTA BENZENE HEXACHLORIDE, DISSOLVED (UG/L)	319868
34261	DELTA BENZENE HEXACHLORIDE, SUSPENDED (UG/L)	319868
34265	R-BHC (LINDANE) GAMMA, DISSOLVED (UG/L)	58899
34266	R-BHC (LINDANE) GAMMA, SUSPENDED (UG/L)	58899
34273	BIS (2-CHLOROETHYL) ETHER, TOTAL (UG/L)	111444
34274	BIS (2-CHLOROETHYL) ETHER, DISSOLVED (UG/L)	111444
34275	BIS (2-CHLOROETHYL) ETHER, SUSPENDED (UG/L)	111444
34278	BIS (2-CHLOROETHOXY) METHANE, TOTAL (UG/L)	111911
34279	BIS (2-CHLOROETHOXY) METHANE, DISSOLVED (UG/L)	111911
34280	BIS (2-CHLOROETHOXY) METHANE, SUSPENDED (UG/L)	111911
34288	BROMOFORM, DISSOLVED (UG/L)	75252
34289	BROMOFORM, SUSPENDED (UG/L)	75252
34292	N-BUTYL BENZYL PHTHALATE, WHOLE WATER (UG/L)	85687
34293	N-BUTYL BENZYL PHTHALATE, DISSOLVED (UG/L)	85687
34294	N-BUTYL BENZYL PHTHALATE, SUSPENDED (UG/L)	85687
34297	CARBON TETRACHLORIDE, DISSOLVED (UG/L)	56235
34298	CARBON TETRACHLORIDE, SUSPENDED (UG/L)	56235

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34301	CHLOROBENZENE, TOTAL (UG/L)	108907
34302	CHLOROBENZENE, DISSOLVED (UG/L)	108907
34303	CHLOROBENZENE, SUSPENDED (UG/L)	108907
34306	CHLORODIBROMOMETHANE, TOTAL (UG/L)	124481
34307	CHLORODIBROMOMETHANE, DISSOLVED (UG/L)	124481
34308	CHLORODIBROMOMETHANE, SUSPENDED (UG/L)	124481
34311	CHLOROETHANE, TOTAL (UG/L)	75003
34312	CHLOROETHANE, DISSOLVED (UG/L)	75003
34313	CHLOROETHANE, SUSPENDED (UG/L)	75003
34316	CHLOROFORM, DISSOLVED (UG/L)	67663
34317	CHLOROFORM, SUSPENDED (UG/L)	67663
34320	CHRYSENE, TOTAL (UG/L)	218019
34321	CHRYSENE, DISSOLVED (UG/L)	218019
34322	CHRYSENE, SUSPENDED (UG/L)	218019
34325	CYANIDE, SUSPENDED (MG/L)	57125
34327	DI-N-BUTYL PHTHALATE, DISSOLVED (UG/L)	84742
34328	DICHLOROBROMOMETHANE, DISSOLVED (UG/L)	75274
34329	DICHLOROBROMOMETHANE, SUSPENDED (UG/L)	75274
34336	DIETHYL PHTHALATE, TOTAL (UG/L)	84662
34337	DIETHYL PHTHALATE, DISSOLVED (UG/L)	84662
34338	DIETHYL PHTHALATE, SUSPENDED (UG/L)	84662
34341	DIMETHYL PHTHALATE, TOTAL (UG/L)	131113
34342	DIMETHYL PHTHALATE, DISSOLVED (UG/L)	131113
34343	DIMETHYL PHTHALATE, SUSPENDED (UG/L)	131113
34346	1,2-DIPHENYLHYDRAZINE, TOTAL (UG/L)	122667
34347	1,2-DIPHENYLHYDRAZINE, DISSOLVED (UG/L)	122667
34348	1,2-DIPHENYLHYDRAZINE, SUSPENDED (UG/L)	122667
34351	ENDOSULFAN SULFATE, TOTAL (UG/L)	1031078

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34352	ENDOSULFAN SULFATE, DISSOLVED (UG/L)	1031078
34353	ENDOSULFAN SULFATE, SUSPENDED (UG/L)	1031078
34356	ENDOSULFAN, BETA, TOTAL (UG/L)	33213659
34357	ENDOSULFAN, BETA, DISSOLVED (UG/L)	33213659
34358	ENDOSULFAN, BETA, SUSPENDED (UG/L)	33213659
34361	ENDOSULFAN, ALPHA, TOTAL (UG/L)	959988
34362	ENDOSULFAN, ALPHA, DISSOLVED (UG/L)	959988
34363	ENDOSULFAN, ALPHA, SUSPENDED (UG/L)	959988
34371	ETHYLBENZENE, TOTAL (UG/L)	100414
34372	ETHYLBENZENE, DISSOLVED (UG/L)	100414
34373	ETHYLBENZENE, SUSPENDED (UG/L)	100414
34376	FLUORANTHENE, TOTAL (UG/L)	206440
34377	FLUORANTHENE, DISSOLVED (UG/L)	206440
34378	FLUORANTHENE, SUSPENDED (UG/L)	206440
34381	FLUORENE, TOTAL (UG/L)	86737
34382	FLUORENE, DISSOLVED (UG/L)	86737
34383	FLUORENE, SUSPENDED (UG/L)	86737
34386	HEXACHLOROCYCLOPENTADIENE, TOTAL (UG/L)	77474
34387	HEXACHLOROCYCLOPENTADIENE, DISSOLVED (UG/L)	77474
34388	HEXACHLOROCYCLOPENTADIENE, SUSPENDED (UG/L)	77474
34391	HEXACHLOROBUTADIENE, TOTAL (UG/L)	87683
34392	HEXACHLOROBUTADIENE, DISSOLVED (UG/L)	87683
34393	HEXACHLOROBUTADIENE, SUSPENDED (UG/L)	87683
34396	HEXACHLOROETHANE, TOTAL (UG/L)	67721
34397	HEXACHLOROETHANE, DISSOLVED (UG/L)	67721
34398	HEXACHLOROETHANE, SUSPENDED (UG/L)	67721
34401	HEXACHLOROBENZENE, DISSOLVED (UG/L)	118741
34402	HEXACHLOROBENZENE, SUSPENDED (UG/L)	118741

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34403	INDENO (1,2,3-CD) PYRENE, TOTAL (UG/L)	193395
34404	INDENO (1,2,3-CD) PYRENE, DISSOLVED (UG/L)	193395
34405	INDENO (1,2,3-CD) PYRENE, SUSPENDED (UG/L)	193395
34408	ISOPHORONE, TOTAL (UG/L)	78591
34409	ISOPHORONE, DISSOLVED (UG/L)	78591
34410	ISOPHORONE, SUSPENDED (UG/L)	78591
34413	METHYL BROMIDE, TOTAL (UG/L)	74839
34414	METHYL BROMIDE, DISSOLVED (UG/L)	74839
34415	METHYL BROMIDE, SUSPENDED (UG/L)	74839
34418	METHYL CHLORIDE, TOTAL (UG/L)	74873
34419	METHYL CHLORIDE, DISSOLVED (UG/L)	74873
34420	METHYL CHLORIDE, SUSPENDED (UG/L)	74873
34423	METHYLENE CHLORIDE, TOTAL (UG/L)	75092
34424	METHYLENE CHLORIDE, DISSOLVED (UG/L)	75092
34425	METHYLENE CHLORIDE, SUSPENDED (UG/L)	75092
34428	N-NITROSODI-N-PROPYLAMINE, TOTAL (UG/L)	621647
34429	N-NITROSODI-N-PROPYLAMINE, DISSOLVED (UG/L)	621647
34430	N-NITROSODI-N-PROPYLAMINE, SUSPENDED (UG/L)	621647
34433	N-NITROSODIPHENYLAMINE, TOTAL (UG/L)	86306
34434	N-NITROSODIPHENYLAMINE, DISSOLVED (UG/L)	86306
34435	N-NITROSODIPHENYLAMINE, SUSPENDED (UG/L)	86306
34438	N-NITROSODIMETHYLAMINE, TOTAL (UG/L)	62759
34439	N-NITROSODIMETHYLAMINE, DISSOLVED (UG/L)	62759
34440	N-NITROSODIMETHYLAMINE, SUSPENDED (UG/L)	62759
34443	NAPHTHALENE, DISSOLVED (UG/L)	91203
34444	NAPHTHALENE, SUSPENDED (UG/L)	91203
34447	NITROBENZENE, TOTAL (UG/L)	98953
34448	NITROBENZENE, DISSOLVED (UG/L)	98953

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34449	NITROBENZENE, SUSPENDED (UG/L)	98953
34452	PARACHLOROMETA CRESOL, TOTAL (UG/L)	59507
34453	PARACHLOROMETA CRESOL, DISSOLVED (UG/L)	59507
34454	PARACHLOROMETA CRESOL, SUSPENDED (UG/L)	59507
34457	PCB - 1242, DISSOLVED (UG/L)	53469219
34458	PCB - 1242, SUSPENDED (UG/L)	53469219
34459	PCP (PENTACHLOROPHENOL), DISSOLVED (UG/L)	87865
34460	PCP (PENTACHLOROPHENOL), SUSPENDED (UG/L)	87865
34461	PHENANTHRENE, TOTAL (UG/L)	85018
34462	PHENANTHRENE, DISSOLVED (UG/L)	85018
34463	PHENANTHRENE, SUSPENDED (UG/L)	85018
34466	PHENOL, DISSOLVED (UG/L)	108952
34467	PHENOL, SUSPENDED (UG/L)	108952
34469	PYRENE, TOTAL (UG/L)	129000
34470	PYRENE, DISSOLVED (UG/L)	129000
34471	PYRENE, SUSPENDED (UG/L)	129000
34475	TETRACHLOROETHYLENE, TOTAL (UG/L)	127184
34476	TETRACHLOROETHYLENE, DISSOLVED (UG/L)	127184
34477	TETRACHLOROETHYLENE, SUSPENDED (UG/L)	127184
34481	TOLUENE, DISSOLVED (UG/L)	108883
34482	TOLUENE, SUSPENDED (UG/L)	108883
34485	TRICHLOROETHYLENE, DISSOLVED (UG/L)	79016
34486	TRICHLOROETHYLENE, SUSPENDED (UG/L)	79016
34493	VINYL CHLORIDE, DISSOLVED (UG/L)	75014
34494	VINYL CHLORIDE, SUSPENDED (UG/L)	75014
34496	1,1-DICHLOROETHANE, TOTAL (UG/L)	75343
34497	1,1-DICHLOROETHANE, DISSOLVED (UG/L)	75343
34498	1,1-DICHLOROETHANE, SUSPENDED (UG/L)	75343

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34501	1,1-DICHLOROETHYLENE, TOTAL (UG/L)	75354
34502	1,1-DICHLOROETHYLENE, DISSOLVED (UG/L)	75354
34503	1,1-DICHLOROETHYLENE, SUSPENDED (UG/L)	75354
34506	1,1,1-TRICHLOROETHANE, TOTAL (UG/L)	71556
34507	1,1,1-TRICHLOROETHANE, DISSOLVED (UG/L)	71556
34508	1,1,1-TRICHLOROETHANE, SUSPENDED (UG/L)	71556
34511	1,1,2-TRICHLOROETHANE, TOTAL (UG/L)	79005
34512	1,1,2-TRICHLOROETHANE, DISSOLVED (UG/L)	79005
34513	1,1,2-TRICHLOROETHANE, SUSPENDED (UG/L)	79005
34516	1,1,2,2-TETRACHLOROETHANE, TOTAL (UG/L)	79345
34517	1,1,2,2-TETRACHLOROETHANE, DISSOLVED (UG/L)	79345
34518	1,1,2,2-TETRACHLOROETHANE, SUSPENDED (UG/L)	79345
34521	BENZO(GHI)PERYLENE1,12-BENZOPERYLENE, TOTAL (UG/L)	191242
34522	BENZO(GHI)PERYLENE1,12-BENZOPERYLENE, DISS. (UG/L)	191242
34523	BENZO(GHI)PERYLENE1,12-BENZOPERYLENE, SUSP. (UG/L)	191242
34526	BENZO(A)ANTHRACENE1,2-BENZANTHRACENE, TOTAL (UG/L)	56553
34527	BENZO(A)ANTHRACENE1,2-BENZANTHRACENE, DISS. (UG/L)	56553
34528	BENZO(A)ANTHRACENE1,2-BENZANTHRACENE, SUSP. (UG/L)	56553
34531	1,2-DICHLOROETHANE, TOTAL (UG/L)	107062
34532	1,2-DICHLOROETHANE, DISSOLVED (UG/L)	107062
34533	1,2-DICHLOROETHANE, SUSPENDED (UG/L)	107062
34536	1,2-DICHLOROBENZENE, TOTAL (UG/L)	95501
34537	1,2-DICHLOROBENZENE, DISSOLVED (UG/L)	95501
34538	1,2-DICHLOROBENZENE, SUSPENDED (UG/L)	95501
34541	1,2-DICHLOROPROPANE, TOTAL (UG/L)	78875
34542	1,2-DICHLOROPROPANE, DISSOLVED (UG/L)	78875
34543	1,2-DICHLOROPROPANE, SUSPENDED (UG/L)	78875
34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATER (UG/L)	156605

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34547	TRANS-1,2-DICHLOROETHENE, DISSOLVED (UG/L)	156605
34548	TRANS-1,2-DICHLOROETHENE, SUSPENDED (UG/L)	156605
34551	1,2,4-TRICHLOROBENZENE, TOTAL (UG/L)	120821
34552	1,2,4-TRICHLOROBENZENE, DISSOLVED (UG/L)	120821
34553	1,2,4-TRICHLOROBENZENE, SUSPENDED (UG/L)	120821
34556	1,2,5,6-DIBENZANTHRACENE, TOTAL (UG/L)	53703
34557	1,2,5,6-DIBENZANTHRACENE, DISSOLVED (UG/L)	53703
34558	1,2,5,6-DIBENZANTHRACENE, SUSPENDED (UG/L)	53703
34561	1,3-DICHLOROPROPENE, TOTAL (UG/L)	542756
34562	1,3-DICHLOROPROPENE, DISSOLVED (UG/L)	542756
34563	1,3-DICHLOROPROPENE, SUSPENDED (UG/L)	542756
34566	1,3-DICHLOROBENZENE, TOTAL (UG/L)	541731
34567	1,3-DICHLOROBENZENE, DISSOLVED (UG/L)	541731
34568	1,3-DICHLOROBENZENE, SUSPENDED (UG/L)	541731
34571	1,4-DICHLOROBENZENE, TOTAL (UG/L)	106467
34572	1,4-DICHLOROBENZENE, DISSOLVED (UG/L)	106467
34573	1,4-DICHLOROBENZENE, SUSPENDED (UG/L)	106467
34576	2-CHLOROETHYL VINYL ETHER, TOTAL (UG/L)	110758
34577	2-CHLOROETHYL VINYL ETHER, DISSOLVED (UG/L)	110758
34578	2-CHLOROETHYL VINYL ETHER, SUSPENDED (UG/L)	110758
34581	2-CHLORONAPHTHALENE, TOTAL (UG/L)	91587
34582	2-CHLORONAPHTHALENE, DISSOLVED (UG/L)	91587
34583	2-CHLORONAPHTHALENE, SUSPENDED (UG/L)	91587
34586	2-CHLOROPHENOL, TOTAL (UG/L)	95578
34587	2-CHLOROPHENOL, DISSOLVED (UG/L)	95578
34588	2-CHLOROPHENOL, SUSPENDED (UG/L)	95578
34591	2-NITROPHENOL, TOTAL (UG/L)	88755
34592	2-NITROPHENOL, DISSOLVED (UG/L)	88755

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34593	2-NITROPHENOL, SUSPENDED (UG/L)	88755
34596	DI-N-OCTYL PHTHALATE, TOTAL (UG/L)	117840
34597	DI-N-OCTYL PHTHALATE, DISSOLVED (UG/L)	117840
34598	DI-N-OCTYL PHTHALATE, SUSPENDED (UG/L)	117840
34601	2,4-DICHLOROPHENOL, TOTAL (UG/L)	120832
34602	2,4-DICHLOROPHENOL, DISSOLVED (UG/L)	120832
34603	2,4-DICHLOROPHENOL, SUSPENDED (UG/L)	120832
34606	2,4-DIMETHYLPHENOL, TOTAL (UG/L)	105679
34607	2,4-DIMETHYLPHENOL, DISSOLVED (UG/L)	105679
34608	2,4-DIMETHYLPHENOL, SUSPENDED (UG/L)	105679
34611	2,4-DINITROTOLUENE, TOTAL (UG/L)	121142
34612	2,4-DINITROTOLUENE, DISSOLVED (UG/L)	121142
34613	2,4-DINITROTOLUENE, SUSPENDED (UG/L)	121142
34616	2,4-DINITROPHENOL, TOTAL (UG/L)	51285
34617	2,4-DINITROPHENOL, DISSOLVED (UG/L)	51285
34618	2,4-DINITROPHENOL, SUSPENDED (UG/L)	51285
34621	2,4,6-TRICHLOROPHENOL, TOTAL (UG/L)	88062
34622	2,4,6-TRICHLOROPHENOL, DISSOLVED (UG/L)	88062
34623	2,4,6-TRICHLOROPHENOL, SUSPENDED (UG/L)	88062
34626	2,6-DINITROTOLUENE, TOTAL (UG/L)	606202
34627	2,6-DINITROTOLUENE, DISSOLVED (UG/L)	606202
34628	2,6-DINITROTOLUENE, SUSPENDED (UG/L)	606202
34631	3,3'-DICHLOROBENZIDINE, TOTAL (UG/L)	91941
34632	3,3'-DICHLOROBENZIDINE, DISSOLVED (UG/L)	91941
34633	3,3'-DICHLOROBENZIDINE, SUSPENDED (UG/L)	91941
34636	4-BROMOPHENYL PHENYL ETHER, TOTAL (UG/L)	101553
34637	4-BROMOPHENYL PHENYL ETHER, DISSOLVED (UG/L)	101553
34638	4-BROMOPHENYL PHENYL ETHER, SUSPENDED (UG/L)	101553

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34641	4-CHLOROPHENYL PHENYL ETHER, TOTAL (UG/L)	7005723
34642	4-CHLOROPHENYL PHENYL ETHER, DISSOLVED (UG/L)	7005723
34643	4-CHLOROPHENYL PHENYL ETHER, SUSPENDED (UG/L)	7005723
34646	4-NITROPHENOL, TOTAL (UG/L)	100027
34647	4-NITROPHENOL, DISSOLVED (UG/L)	100027
34648	4-NITROPHENOL, SUSPENDED (UG/L)	100027
34651	P,P'-DDD, DISSOLVED (UG/L)	72548
34652	P,P'-DDD, SUSPENDED (UG/L)	72548
34653	P,P'-DDE, DISSOLVED (UG/L)	72559
34654	P,P'-DDE, SUSPENDED (UG/L)	72559
34655	P,P'-DDT, DISSOLVED (UG/L)	50293
34656	P,P'-DDT, SUSPENDED (UG/L)	50293
34657	DNOC (4,6-DINITRO-ORTHO-CRESOL), TOTAL (UG/L)	534521
34658	DNOC (4,6-DINITRO-ORTHO-CRESOL), DISSOLVED (UG/L)	534521
34659	DNOC (4,6-DINITRO-ORTHO-CRESOL), SUSPENDED (UG/L)	534521
34662	PCB - 1221, DISSOLVED (UG/L)	11104282
34663	PCB - 1221, SUSPENDED (UG/L)	11104282
34665	PCB - 1232, DISSOLVED (UG/L)	11141165
34666	PCB - 1232, SUSPENDED (UG/L)	11141165
34671	PCB - 1016, TOTAL (UG/L)	12674112
34672	PCB - 1016, DISSOLVED (UG/L)	12674112
34673	PCB - 1016, SUSPENDED (UG/L)	12674112
34675	2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD),TOT(UG/L)	1746016
34676	2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD)DISS(UG/L)	1746016
34677	2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD)SUSP(UG/L)	1746016
34694	PHENOL(C6H5OH)-SINGLE COMPOUND TOTAL (UG/L)	108952
34696	NAPHTHALENE, TOTAL (UG/L)	91203
34750	2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD)TOT(PG/L)	1746016

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34751	2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD)DISS(PG/L)	1746016
34752	2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD)SUSP(PG/L)	1746016
39032	PCP (PENTACHLOROPHENOL) WHOLE WATER SAMPLE (UG/L)	87865
39039	HEXACHLOROBENZENE WATER SAMPLE,ELECTRON CPT (UG/L)	118741
39100	BIS(2-ETHYLHEXYL) PHTHALATE, WHOLE WATER (UG/L)	117817
39103	BIS(2-ETHYLHEXYL) PHTHALATE, DISSOLVED, (UG/L)	117817
39104	BIS(2-ETHYLHEXYL) PHTHALATE, SUSPENDED, (UG/L)	117817
39107	PHTHALATES,DIETHYLHEXYL SUS.FRAC.WTR DWT (MG/KG)	117817
39110	DI-N-BUTYL PHTHALATE, WHOLE WATER (UG/L)	84742
39114	DI-N-BUTYL PHTHALATE, SUSPENDED (UG/L)	84742
39115	PHTHALATES,DIBUTYL SUS.FRAC.WATER DWT (UG/KG)	84742
39120	BENZIDINE IN WHOLE WATER SAMPLE (UG/L)	92875
39175	VINYL CHLORIDE-WHOLE WATER SAMPLE (UG/L)	75014
39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE (UG/L)	79016
39300	P,P' DDT IN WHOLE WATER SAMPLE (UG/L)	50293
39310	P,P' DDD IN WHOLE WATER SAMPLE (UG/L)	72548
39320	P,P' DDE IN WHOLE WATER SAMPLE (UG/L)	72559
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	309002
39331	ALDRIN IN FILT. FRAC. OF WAT. SAMP. (UG/L)	309002
39332	ALDRIN IN SUSP. FRAC. OF WAT. SAMP. (UG/L)	309002
39336	BHC-ALPHA, WATER, WHOLE (LBS/DAY)	319846
39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER (UG/L)	319846
39338	BETA BENZENE HEXACHLORIDE IN WHOLE WATER (UG/L)	319857
39340	GAMMA-BHC(LINDANE), WHOLE WATER (UG/L)	58899
39341	GAMMA-BHC(LINDANE), DISSOLVED (UG/L)	58899
39342	GAMMA-BHC(LINDANE), SUSPENDED (UG/L)	58899
39344	BHC-GAMMA, WATER, WHOLE (LBS/DAY)	58899
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATER (UG/L)	57749

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
39352	CHLORDANE(TECH MIX & METABS), DISSOLVED (UG/L)	57749
39353	CHLORDANE(TECH MIX & METABS), SUSPENDED (UG/L)	57749
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	72548
39361	DDD IN FILT. FRAC. OF WATER SMAPLE (UG/L)	72548
39362	DDD IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	72548
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	72559
39366	DDE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	72559
39367	DDE IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	72559
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	50293
39371	DDT IN FILT. FRAC. OF WATER SAMPLE (UG/L)	50293
39372	DDT IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	50293
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	60571
39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	60571
39382	DIELDRIN IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	60571
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	72208
39391	ENDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	72208
39392	ENDRIN IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	72208
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	8001352
39401	TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	8001352
39402	TOXAPHENE IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	8001352
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	76448
39411	HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE (UG/L)	76448
39412	HEPTACHLOR IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	76448
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	1024573
39421	HEPTACHLOR EPOXIDE IN FILT. FRAC. WAT. SAM. (UG/L)	1024573
39422	HEPTACHLOR EPOXIDE IN SUSP. FRAC. WAT. SAM. (UG/L)	1024573
39488	PCB - 1221 IN THE WHOLE WATER SAMPLE (UG/L)	11104282
39492	PCB - 1232 PCB SERIES WHOLE WATER SAMPLE (UG/L)	11141165

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
39496	PCB - 1242 PCB SERIES WHOLE WATER SAMPLE (UG/L)	53469219
39500	PCB - 1248 PCB SERIES WHOLE WATER SAMPLE (UG/L)	12672296
39501	PCB - 1248 IN FILT. FRAC. OF WATER SAMPLE (UG/L)	12672296
39502	PCB - 1248 IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	12672296
39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE (UG/L)	11097691
39505	PCB - 1254 IN FILT. FRAC. OF WATER SAMPLE (UG/L)	11097691
39506	PCB - 1254 IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	11097691
39508	PCB - 1260 PCB SERIES WHOLE WATER SAMPLE (UG/L)	11096825
39509	PCB - 1260 IN FILT. FRAC. OF WATER SAMPLE (UG/L)	11096825
39510	PCB - 1260 IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	11096825
39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE (UG/L)	118741
39702	HEXACHLOROBUTADIENE IN WHOLE WATER SAMPLE (UG/L)	87683
39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)	58899
39920	DNOC IN WHOLE WATER SAMPLE (UG/L)	534521
46322	LINDANE PLUS ISOMERS IN WHOLE WATER SAMPLE (UG/L)	58899
46323	DELTA-BHC IN WHOLE WATER SAMPLE (UG/L)	319868
46326	HEPTACHLOR AND METABOLITES IN WH. H2O SAMP. (UG/L)	76448
46479	CYANIDE, DISSOLVED, WATER (UG/L)	57125
46551	ARSENIC, FIELD ACIDIFIED W/HNO3, LAB FILT. (UG/L)	7440382
46559	CADMIUM, FIELD ACIDIFIED-HNO3-LAB FILTER (UG/L-CD)	7440439
46560	CHROMIUM, FIELD ACIDIFIED-HNO3-LAB FILT. (UG/L-CR)	7440473
46562	COPPER, FIELD ACIDIFIED-HNO3-LAB FILTER. (UG/L-CU)	7440508
46564	LEAD, FIELD ACIDIFIED-HNO3-LAB FILTERED (UG/L-PB)	7439921
46566	SILVER, FIELD ACIDIFIED-HNO3-LAB FILTER.(UG/L-AG)	7440224
46567	ZINC, EXTRACT. FIELD ACID W/HNO3, LAB FILT. (UG/L)	7440666
70012	PARACHLOROMETA CRESOL, WATER, WHOLE (LBS/DAY)	59507
70017	HEXACHLOROCYCLOPENTADIENE, WATER, WHOLE (LBS/DAY)	77474
70021	LEAD, (TCLP), WATER, TOTAL (MG/L)	7439921

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
71890	MERCURY, DISSOLVED (UG/L AS HG)	7439976
71895	MERCURY, SUSPENDED (UG/L AS HG)	7439976
71900	MERCURY, TOTAL (UG/L AS HG)	7439976
71901	MERCURY, TOTAL RECOVERABLE IN WATER AS HG (UG/L)	7439976
71946	CADMIUM, EXTRACTABLE (UG/L AS CD)	7440439
71947	CHROMIUM, EXTRACTABLE (UG/L AS CR)	7440473
71949	LEAD, EXTRACTABLE (UG/L AS PB)	7439921
71950	ZINC, EXTRACTABLE (UG/L AS ZN)	7440666
71951	COPPER, EXTRACTABLE (UG/L AS CU)	7440508
73063	CHLOROQUAIACOL,4-, TOTAL, WATER (UG/L)	16766306
73522	PROPANE, 2,2'-OXYBIS(1-CHLORO)- TOTAL (UG/L)	108601
77163	1,3-DICHLOROPROPENE-1, WHOLE WATER (UG/L)	542756
77354	1,1-DICHLORO-2,2-DIFLUOROETHANE WHOLE WATER (UG/L)	471432
77771	3-CHLORO-4-HYDROXYBENZOPHENONE, WHOLE WATER (UG/L)	55191203
78113	ETHYL BENZENE WHOLE WATER SAMPLE (UG/L)	100414
78124	BENZENE IN WATER (VOLATILE ANALYSIS) (UG/L)	71432
78131	TOLUENE IN WHOLE WATER (VOLATILE ANALYSIS) (UG/L)	108883
78208	2,4-DINITRO-O-CRESOL IN WHOLE WATER SAMPLE (UG/L)	534521
78247	CHROMIUM, HEXAVALENT, TOTAL RECOVERABLE, WT (UG/L)	18540299
78248	CYANIDE, TOTAL RECOVERABLE, WATER, WHOLE (UG/L)	57125
80357	CHROMIUM, TRIVALENT, DISSOLVED, AS CR	16065831
81208	CYANIDE, FREE (NOT AMEN. TO CHLORINATION) (MG/L)	57125
81210	CYANIDE - STATE OF ILLINOIS (MG/L)	57125
81214	CADMIUM - STATE OF ILLINOIS (MG/L)-COLD	7440439
81215	CHROMIUM - STATE OF ILLINOIS (MG/L), COLD DIGEST	18540299
81216	CHROMIUM(TRI)-STATE OF ILLINOIS (MG/L)-COLD DIGEST	16065831
81217	CHROMIUM, TOTAL - STATE OF ILLINOIS (MG/L) COLD DIGEST	7440473
81218	COPPER, STATE OF ILLINOIS, MG/L, COLD DIGEST	7440508

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
81220	LEAD, STATE OF ILLINOIS, MG/L, COLD DIGEST	7439921
81222	NICKEL - STATE OF ILLINOIS, MG/L, COLD DIGEST	7440020
81223	SILVER, STATE OF ILLINOIS, MG/L, COLD DIGEST	7440224
81224	ZINC - STATE OF ILLINOIS, MG/L, COLD DIGEST	7440666
81642	SILVER (AG) IN WATER POUNDS PER DAY (LBS/DAY)	7440224
81750	COPPER, INTERSTITIAL WATER FROM SEDIMENTS (UG/L)	7440508
81751	LEAD, INTERSTITIAL WATER FROM SEDIMENTS (UG/L)	7439921
81752	NICKEL, INTERSTITIAL WATER FROM SEDIMENTS (UG/L)	7440020
81753	CADMIUM, INTERSTITIAL WATER FROM SEDIMENT	7440439
81754	ZINC, INTERSTITIAL WATER FROM SEDIMENTS (UG/L)	7440666
81766	HEPTACHLOR EPOXIDE IN EPILITHIC ALGAE SED. (UG/KG)	1024573
81931	MERCURY (HG) SUSPENDED FRACTION OF WATER (UG/G)	7439976
81932	CADMIUM (CD) SUSPENDED FRACTION OF WATER (UG/G)	7440439
81933	ZINC (ZN) SUSPENDED FRACTION OF WATER (UG/G)	7440666
81934	LEAD (PB) SUSPENDED FRACTION OF WATER (UG/G)	7439921
81936	LEAD (PB) DISSOLVED CATIONIC SPECIES (UG/L)	7439921
81937	CADMIUM (CD) DISSOLVED CATIONIC SPECIES (UG/L)	7440439
81938	CHROMIUM, DISSOLVED CATIONIC SPECIES (UG/L)	7440473
81939	COPPER (CU) DISSOLVED CATIONIC SPECIES (UG/L)	7440508
81940	ZINC (ZN) DISSOLVED CATIONIC SPECIES (UG/L)	7440666
81941	CHROMIUM, DISSOLVED ANIONIC SPECIES (UG/L)	7440473
81942	COPPER (CU) DISSOLVED ANIONIC SPECIES (UG/L)	7440508
81943	ZINC (ZN) DISSOLVED ANIONIC SPECIES (UG/L)	7440666
82058	CHROMIUM, TOTAL, PERCENT REMOVAL	7440473
82399	CHROMIUM, HEXAVALENT (KG/BATCH)	18540299
82512	M,P-DICHLOROBENZENE (MEASURES 1,3&1,4) TOT. (UG/L)	541731
82573	CYANIDE/CHLORINATION IN WATER (MG/L)	57125
82621	HEXACHLOROBENZENE, WATER, TOTAL RECOVER. (UG/L)	118741

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
82622	ENDRIN ALDEHYDE, WH. WATER, TOTAL RECOVER. (UG/L)	7421934
82623	ENDOSULFAN SULFATE, WATER, TOTAL RECOVER. (UG/L)	1031078
82624	ENDOSULFAN, BETA, WH. WATER, TOTAL RECOVER. (UG/L)	33213659
82626	1,2-DIPHENYLHYDRAZINE, WATER, TOTAL RECOVER. (UG/L)	122667
82627	PARACHLOROMETA CRESOL, WATER, TOTAL RECOVER. (UG/L)	59507
85006	ZINC, TOTAL - (#/DAY)	7440666
85007	CHROMIUM, TOTAL (#/DAY)	7440473
85010	NICKEL, TOTAL - (#/DAY)	7440020
85013	MERCURY, TOTAL - (#/DAY)	7439976

Appendix H

Literature Cited

Code of Federal Regulations. 1994. Protection of Environment. 40 CFR Parts 100 to 149. Revised as of July 1, 1994. Published by the Office of the Federal Register, National Archives and Records Administration. U.S. Government Printing Office, Washington, D.C. 20402.

Gilbert, R. O. 1987. Statistical Methods for Environmental Pollution Monitoring. Van Nostrand Reinhold Co., New York, NY. 320p.

GKY and Associates. 1990. Dam Inventory Database and Retrieval Software: Final Report. U.S. Environmental Protection Agency, Water Quality Analysis Branch. Under Contract #68-03-3339.

Kunkle, S. and J. Wilson. 1984. Specific Conductance and pH Measurements in Surface Waters: An Introduction for Park Natural Resource Specialists. Water Resources Field Support Laboratory Report No. 84-3. National Park Service, Water Resources Division, Fort Collins, Colorado 80525. 51p.

National Park Service. 1993. Strategic Plan for Conducting Baseline Natural Resource Inventories in the National Park Service. National Park Service, Washington Office, Servicewide Inventory and Monitoring Program, Washington, D.C. Unpublished. 17p.

U.S. Environmental Protection Agency. 1995. Quality Criteria for Water 1995. Final Draft. Office of Water Regulations and Standards, Washington, D.C.

U.S. Environmental Protection Agency. 1989. STORET User Handbook. U.S. Environmental Protection Agency, Office of Water, Washington, D.C. 20460.

U.S. Environmental Protection Agency. 1992. Office of Water Environmental and Program Information Systems Compendium. U.S. Environmental Protection Agency, Office of Water, Washington, D.C. 20460. 152p.

U.S. Environmental Protection Agency. 1993. Technical Description of the Reach File. U.S. Environmental Protection Agency, Office of Water, Washington, D.C. 20460. 23p.

U.S. Geological Survey. 1982. A U.S. Geological Survey Data Standard: Codes for the Identification of Hydrologic Units in the United States and Caribbean Outlying Areas. Geological Survey Circular 878-A. U.S. Geological Survey, Water Resources Division, Reston, VA. 22092. 115p.

U.S. Geological Survey 1992. Hydro-Climatic Data Network: A U.S. Geological Survey Streamflow Data Set for the United States for the Study of Climate Variations 1874-1988. Open File Report 92-129/USGS Water Supply Paper No. 2406. U.S. Geological Survey, Water Resources Division, Reston, VA. 22092. 193p.

Ward, R. C., J. C. Loftis, and G. B. McBride. 1990. Design of Water Quality Monitoring Systems. Van Nostrand Reinhold Co., New York, NY. 231p.

Appendix I

Selected General Water Quality References

- American Public Health Association. 1989. Standard Methods for the Examination of Water and Wastewater (17th ed.). Washington, D.C. 1476p.
- Drever, J. I. 1982. The Geochemistry of Natural Waters. Prentice-Hall, Inc., Englewood Cliffs, NJ. 388p.
- Dunne, T. and L. B. Leopold. 1978. Water in Environmental Planning. W.H. Freeman and Company, San Francisco, CA. 818p.
- Everett, L. G. 1980. Groundwater Monitoring. General Electric Co., Schenectady, NY. 440p.
- Fetter, C. W. 1988. Applied Hydrogeology (2nd ed.). MacMillan Publishing Co., New York, NY. 592p.
- Flora, M. D., T. E. Ricketts, J. Wilson, and S. Kunkle. 1984. Water Quality Criteria: An Overview for Park Natural Resource Specialists. WRFSL Report No. 84-4. National Park Service, Water Resources Field Support Laboratory, Fort Collins, CO. 46p.
- Gilbert, R. O. 1987. Statistical Methods for Environmental Pollution Monitoring. Van Nostrand Reinhold Co., New York, NY. 320p.
- Hem, J. D. 1985. Study and Interpretation of the Chemical Characteristics of Natural Water (3rd ed.). U.S. Geological Survey Water-Supply Paper 2254. U.S. Government Printing Office, Washington, D.C. 263p.
- Kunkle, S., W. S. Johnson, and M. Flora. 1987. Monitoring Stream Water Quality for Land-Use Impacts: A Training Manual for Natural Resource Management Specialists. Water Resources Division, National Park Service, Fort Collins, CO. 102p.
- Kunkle, S. and J. Wilson. 1984. Specific Conductance and pH Measurements in Surface Waters: An Introduction for Park Natural Resource Specialists. Water Resources Field Support Laboratory Report No. 84-3. National Park Service, Water Resources Division, Fort Collins, Colorado 80525. 51p.
- Merritt, R. W., and K. W. Cummins (eds.). 1984. An Introduction to the Aquatic Insects of North America (2nd ed.). Kendall/Hunt Publishing Co., Dubuque, IA. 44p.
- Morel, F. M. 1983. Principles of Aquatic Chemistry. John Wiley & Sons, Inc., New York, NY. 446p.
- Nielsen, D. M. (ed.). 1991. Practical Handbook of Ground-Water Monitoring. Lewis Publishers, Inc. Chelsea, MI. 717p.
- Ponce, S. L. 1980a. Statistical Methods Commonly Used in Water Quality Data Analysis. WSDG Technical Paper WSDG-TP-00001. U.S. Department of Agriculture, Forest Service, Watershed Systems Development Group, Fort Collins, CO. 136p.
- Ponce, S. L. 1980b. Water Quality Monitoring Programs. WSDG Technical Paper WSDG-TP-00002. U.S. Department of Agriculture, Forest Service, Watershed Systems Development Group, Fort Collins, CO. 68p.
- Rand, G. M. and S. R. Petrocelli (eds.). 1985. Fundamentals of Aquatic Toxicology. Hemisphere Publishing Co., New York, NY. 666p.

Rantz, S. E. and others. 1982. Measurement and Computation of Streamflow: Volume 1. Measurement of Stage and Discharge. Volume 2. Computation of Discharge. U.S. Department of the Interior, Geological Survey Water Supply Paper 2175. 631p.

Stednick, J.D. and D. M. Gilbert. 1998. Water Quality Inventory Protocol: Riverine Environments. National Park Service, Water Resources Division Technical Report NPS/NRWRD/NRTR-98/177. Fort Collins, CO. 103p.

Stednick, J. D. 1991. Wildland Water Quality Sampling and Analysis. Academic Press, Inc., San Diego, CA. 217p.

United Nations Educational, Scientific and Cultural Organization (UNESCO). 1978. Water Quality Surveys: A Guide for the Collection and Interpretation of Water Quality Data. IHD-WHO Working Group on the Quality of Water, Paris, France. 350p.

U.S. Department of the Interior. 1977. National Handbook of Recommended Methods for Water-Data Acquisition. U.S. Geological Survey, Office of Water-Data Coordination, Reston, VA. 990p.

U.S. Environmental Protection Agency. 1978. Microbiological Methods for Monitoring the Environment: Water and Wastes. R. H. Border, J. A. Winter, and P. W. Scarpino. EPA-600/8-78-017. Office of Research and Development, Environmental Monitoring Systems Laboratory, Cincinnati, OH. 338p.

U.S. Environmental Protection Agency. 1979b. Methods for Chemical Analysis of Water and Wastes. EPA-600/4-79-020. (Revised March 1983). Office of Research and Development, Environmental Monitoring Systems Laboratory, Cincinnati, OH. 460p.

U.S. Environmental Protection Agency. 1983. Water Quality Standards Handbook. Office of Water Regulations and Standards, Washington, D.C. 218p.

U.S. Environmental Protection Agency. 1995. Quality Criteria for Water 1995. Final Draft. Office of Water Regulations and Standards, Washington, D.C.

U.S. Environmental Protection Agency. 1989. Rapid Bioassessment Protocols for Use in Streams and Rivers: Benthic Macroinvertebrates and Fish. J. L. Plafkin, M. T. Barbour, K. D. Porter, S. K. Gross, and R. M. Hughes. EPA-444/4-89-001. Office of Water Regulations and Standards, Assessment and Watershed Protection Division, Washington, D.C. 162p.

U.S. Environmental Protection Agency. 1990. Macroinvertebrate Field and Laboratory Methods for Evaluating the Biological Integrity of Surface Waters. D. J. Klemm, P. A. Lewis, F. Fulk, and J. M. Lazorchak. EPA-600/4-90-030. Office of Research and Development, Environmental Monitoring Systems Laboratory, Cincinnati, OH. 256p.

U.S. Environmental Protection Agency. 1991a. Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms (4th ed.). C. I. Weber, ed. EPA-600/4-90-027. Office of Research and Development, Environmental Monitoring Systems Laboratory, Cincinnati, OH. 293p.

U.S. Environmental Protection Agency. 1991b. Monitoring Guidelines to Evaluate Effects of Forestry Activities on Streams in the Pacific Northwest and Alaska. L. H. MacDonald, A. W. Smart, and R. C. Wissmar. EPA-910/9-91-001. Region 10, Seattle, WA. 162p.

U.S. Environmental Protection Agency. 1993. Guide to Federal Water Quality Programs and Information. T. Stuart and N. P. Ross. EPA-230-B-93-001. Office of Strategic Planning and Environmental Data, Environmental Statistics and Information Division. Washington, D.C. 194p.

Verschueren, K. 1983. Handbook of Environmental Data on Organic Chemicals (2nd ed.). Van Nostrand Reinhold Co., New York, NY. 1310p.

Viessman W. and M. J. Hammer. 1985. Water Supply and Pollution Control (4th ed.). Harper and Row, Publishers, Inc. New York, NY. 797p.

Ward, R. C., J. C. Loftis, and G. B. McBride. 1990. Design of Water Quality Monitoring Systems. Van Nostrand Reinhold Co., New York, NY. 231p.

Wetzel, R. G. 1983. Limnology (2nd ed.). Sanders College Publishing, Philadelphia, PA. 767p.



As the nation's principal conservation agency, the Department of the Interior has the responsibility for most of our nationally owned public lands and natural and cultural resources. This includes fostering wise use of our land and water resources, protecting our fish and wildlife, preserving the environmental and cultural values of our national parks and historical places, and providing for enjoyment of life through outdoor recreation. The Department assesses our energy and mineral resources and works to ensure that their development is in the best interests of all our people. The Department also promotes the goals of the Take Pride in America campaign by encouraging stewardship and citizen responsibility for the public lands and promoting citizen participation in their care. The Department also has a major responsibility for American Indian reservation communities and for people who live in island territories under U.S. administration.